

# SERVICE MANUAL

# RA-1 CHASSIS

| MODEL    | COMMANDER | DEST.    | CHASSIS NO. |
|----------|-----------|----------|-------------|
| KP-41T25 | RM-Y121   | US       | SCC-H53L-A  |
| KP-41T25 | RM-Y121   | Canadian | SCC-H58H-A  |
| KP-46S25 | RM-Y118   | US       | SCC-H53J-A  |
| KP-53S25 | RM-Y118   | US       | SCC-H53K-A  |

| MODEL    | COMMANDER | DEST.    | CHASSIS NO. |
|----------|-----------|----------|-------------|
| KP-46S17 | RM-Y121   | Canadian | SCC-H58J-A  |
| KP-53S17 | RM-Y121   | Canadian | SCC-H58K-A  |

## Note :

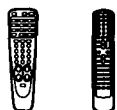
1. This service manual handles differences from KP-41T15/46S15/53S15(RA-1 Chassis) service manual only. Please use this service manual together with that of KP-41T15/46S15/53S15(RA-1 Chassis).

KP-41T15/46S15/53S15(RA-1 Chassis) service manual  
Part No.

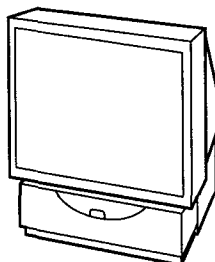
|          | Service manual | Adjustment Manual |
|----------|----------------|-------------------|
| Part No. | 9-965-042-01   | 9-965-043-01      |

2. Adjustment Manual for this model is separately published.

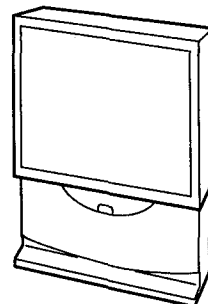
|          | Adjustment Manual |
|----------|-------------------|
| Part No. | 9-965-101-11      |



RM-Y121 RM-Y118



KP-41T25



KP-46S25/53S25



※ Please file according to model size. .... ■



TRINITRON® COLOR TV  
**SONY®**

## SPECIFICATIONS

|                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
|-----------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Projection system                 | 3 picture tubes, 3 lenses, horizontal in-line system                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| Picture tube                      | 7 inch high-brightness monochrome tubes (6.3 raster size), with optical coupling and liquid cooling system                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| Projection lenses                 | High performance, large-diameter hybrid lens F1.0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| Screen size (measured diagonally) |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
|                                   | KP-41T25      41 inches                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
|                                   | KP-46S17      46 inches                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
|                                   | KP-53S17      53 inches                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
|                                   | KP-46S25      46 inches                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
|                                   | KP-53S25      53 inches                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| Screen brightness                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
|                                   | KP-41T25      1900 cd/m <sup>2</sup>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
|                                   | KP-46S17      1500 cd/m <sup>2</sup>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
|                                   | KP-53S17      1200 cd/m <sup>2</sup>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
|                                   | KP-46S25      1500 cd/m <sup>2</sup>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
|                                   | KP-53S25      1200 cd/m <sup>2</sup>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| Television system                 | American TV standards                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| Channel coverage                  | VHF : 2-13 / UHF : 14-69 /<br>CATV : 1-125                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| Antenna                           | 75 ohm external antenna terminal for VHF/UHF                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Inputs/output                     | VIDEO IN 1<br>S VIDEO IN (4-pin mini DIN) :<br>Y : 1 Vp-p, 75-ohms<br>unbalanced, sync negative<br>C : 0.286 Vp-p (Burst signal) 75 ohms<br>VIDEO (phone jack) :<br>1 Vp-p, 75-ohms<br>unbalanced, sync negative<br>AUDIO (phone jacks) :<br>500 mVrms (100% modulation)<br>Impedance : 47 kilohms<br>VIDEO INPUT 2 and VIDEO IN 3<br>VIDEO (phone jacks) :<br>1 Vp-p, 75-ohms<br>unbalanced, sync negative<br>AUDIO (phone jacks) :<br>500 mVrms (100% modulation)<br>Impedance : 47 kilohms<br>MONITOR OUT<br>VIDEO (phone jack) :<br>1 Vp-p, 75-ohms<br>unbalanced, sync negative<br>AUDIO (phone jacks) :<br>500 mVrms (100% modulation)<br>Impedance : 10 kilohms<br>AUDIO OUT (phono jacks) :<br>900 mVrms (100% modulation)<br>Impedance : 5 kilohms |

|                   |                                                    |
|-------------------|----------------------------------------------------|
| Speaker           | Full range speaker<br>100 mm (3.9 inches) diameter |
| Speaker output    | 10 W x 2                                           |
| Power requirement | 120 V, 60 Hz                                       |
| Power consumption | 220 W                                              |
|                   | Standby mode : 4 W                                 |

|                      | Dimensions (W/H/D)                                                                                                                                                                                                                                                                                                                                              | Mass                    |
|----------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------|
| KP-41T25             | 951 x 1,000 x 588 mm<br>(37 1/2 x 39 3/8 x 23 1/4 inches)                                                                                                                                                                                                                                                                                                       | 53 kg<br>(116 lbs 1 oz) |
| KP-46S17             | 1,066 x 1,306 x 543 mm<br>(42 x 51 1/2 x 21 1/2 inches)                                                                                                                                                                                                                                                                                                         | 70 kg<br>(154 lbs 5 oz) |
| KP-53S17             | 1,218 x 1,413 x 594 mm<br>(48 x 55 3/4 x 23 1/2 inches)                                                                                                                                                                                                                                                                                                         | 75 kg<br>(165 lbs 6 oz) |
| KP-46S25             | 1,066 x 1,306 x 543 mm<br>(42 x 51 1/2 x 21 1/2 inches)                                                                                                                                                                                                                                                                                                         | 70 kg<br>(154 lbs 5 oz) |
| KP-53S25             | 1,218 x 1,413 x 594 mm<br>(48 x 55 3/4 x 23 1/2 inches)                                                                                                                                                                                                                                                                                                         | 75 kg<br>(165 lbs 6oz)  |
| Supplied accessories | Remote commander RM-Y121 (1)(For KP-41T25,46S17/53S17)<br>RM-Y118 (1)(For KP-46S25,53S25)                                                                                                                                                                                                                                                                       |                         |
| Optional accessories | Size AA (R6) battery (1)<br>U/V mixer EAC-66<br>Connecting cables RK-74A,<br>VMC-810S/820S, YC-15V/30V,<br>VMC-720M<br>Video tray SU-PJT2 (For KP-46S17,<br>KP-53S17,KP-46S25,KP-53S25)<br>Stand SU-41T1 (For KP-41T25)<br>High - contrast protective screen<br>SCN-41X1 (For KP-41T25)<br>SCN-46X1 (For KP-46S17,KP-46S25)<br>SCN-53X1 (For KP-53S17,KP-53S25) |                         |

Design and specifications are subject to change without notice.

## SAFETY CHECK-OUT

( US model only )

After correcting the original service problem, perform the following safety checks before releasing the set to the customer:

1. Check the area of your repair for unsoldered or poorly-soldered connections. Check the entire board surface for solder splashes and bridges.
2. Check the interboard wiring to ensure that no wires are "pinched" or contact high-wattage resistors.
3. Check that all control knobs, shields, covers, ground straps, and mounting hardware have been replaced. Be absolutely certain that you have replaced all the insulators.
4. Look for unauthorized replacement parts, particularly transistors, that were installed during a previous repair. Point them out to the customer and recommend their replacement.
5. Look for parts which, through functioning, show obvious signs of deterioration. Point them out to the customer and recommend their replacement.
6. Check the line cords for cracks and abrasion. Recommend the replacement of any such line cord to the customer.
7. Check the condition of the monopole antenna (if any). Make sure the end is not broken off, and has the plastic cap on it. Point out the danger of impalement on a broken antenna to the customer, and recommend the antenna's replacement.
8. Check the B+ and HV to see they are at the values specified. Make sure your instruments are accurate; be suspicious of your HV meter if sets always have low HV.
9. Check the antenna terminals, metal trim, "metallized" knobs, screws, and all other exposed metal parts for AC leakage. Check leakage as described below.

## LEAKAGE TEST

The AC leakage from any exposed metal part to earth ground and from all exposed metal parts to any exposed metal part having a return to chassis, must not exceed 0.5mA (500 microamperes). Leakage current can be measured by any one of three methods.

1. A commercial leakage tester, such as the Simpson 229 or RCA WT-540A. Follow the manufacturers' instructions to use these instruments.
2. A battery-operated AC milliammeter. The Data Precision 245 digital multimeter is suitable for this job.
3. Measuring the voltage drop across a resistor by means of a VOM or battery-operated AC voltmeter. The "limit" indication is 0.75V, so analog meters must have an accurate low-voltage scale. The Simpson 250 and Sanwa SH-63Trd are examples of a passive VOM that is suitable. Nearly all battery operated digital multimeters that have a 2V AC range are suitable (See Fig. A)

## HOW TO FIND A GOOD EARTH GROUND

A cold-water pipe is guaranteed earth ground; the cover-plate retaining screw on most AC outlet boxes is also at earth ground. If the retaining screw is to be used as your earth-ground, verify that it is at ground by measuring the resistance between it and a cold-water pipe with an ohmmeter. The reading should be zero ohms. If a cold-water pipe is not accessible, connect a 60-100 watts trouble light (not a neon lamp) between the hot side of the receptacle and the retaining screw. Try both slots, if necessary, to locate the hot side of the line, the lamp should light at normal brilliance if the screw is at ground potential. (See Fig. B)

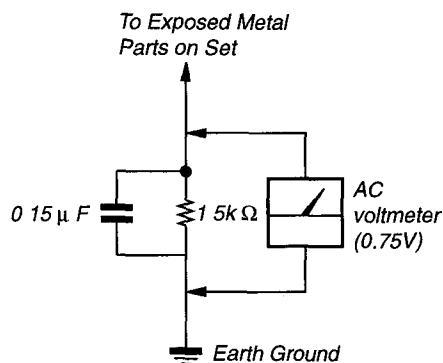


Fig. A. Using an AC voltmeter to check AC leakage.

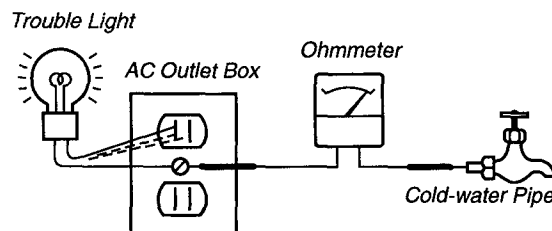


Fig. B. Checking for earth ground.

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### (CAUTION)

SHORT CIRCUIT THE ANODE OF THE PICTURE TUBE AND THE ANODE CAP TO THE METAL CHASSIS, CRT SHIELD, OR CARBON PAINTED ON THE CRT, AFTER REMOVING THE ANODE.

### WARNING!!

AN ISOLATION TRANSFORMER SHOULD BE USED DURING ANY SERVICE TO AVOID POSSIBLE SHOCK HAZARD, BECAUSE OF LIVE CHASSIS.  
THE CHASSIS OF THIS RECEIVER IS DIRECTLY CONNECTED TO THE AC POWER LINE.

### SAFETY-RELATED COMPONENT WARNING!!

COMPONENTS IDENTIFIED BY SHADING AND MARK  $\Delta$  ON THE SCHEMATIC DIAGRAMS, EXPLODED VIEWS AND IN THE PARTS LIST ARE CRITICAL TO SAFE OPERATION. REPLACE THESE COMPONENTS WITH SONY PARTS WHOSE PART NUMBERS APPEAR AS SHOWN IN THIS MANUAL OR IN SUPPLEMENTS PUBLISHED BY SONY. CIRCUIT ADJUSTMENTS THAT ARE CRITICAL TO SAFE OPERATION ARE IDENTIFIED IN THIS MANUAL. FOLLOW THESE PROCEDURES WHENEVER CRITICAL COMPONENTS ARE REPLACED OR IMPROPER OPERATION IS SUSPECTED.

### (ATTENTION)

APRES AVOIR DECONNECTE LE CAP DE L'ANODE, COURT-CIRCUITER L'ANODE DU TUBE CATHODIQUE ET CELUI DE L'ANODE DU CAP AU CHASSIS METALLIQUE DE L'APPAREIL, OU AU COUCHE DE CARBONE PEINTE SUR LE TUBE CATHODIQUE OU AU BLINDAGE DU TUBE CATHODIQUE.

### ATTENTION!!

AFIN D'EVITER TOUT RISQUE DELECTROCUTION PROVENANT D'UN CHÂSSIS SOUS TENSION, UN TRANSFORMATEUR D'ISOLEMENT DOIT ETRE UTILISÉ LORS DE TOUT DEPANNAGE. LE CHÂSSIS DE CE RECEPTEUR EST DIRECTEMENT RACCORDÉ À L'ALIMENTATION SECTEUR.

### ATTENTION AUX COMPOSANTS RELATIFS À LA SÉCURITÉ!!

LES COMPOSANTS IDENTIFIÉS PAR UNE TRAME ET PAR UNE MAPQUE  $\Delta$  SUR LES SCHÉMAS DE PRINCIPE, LES VUES EXPLOSÉES ET LES LISTES DE PIÉCES CONT D'UNE IMPORTANCE CRITIQUE POUR LA SÉCURITÉ DU FONCTIONNEMENT. NE LES REMPLACER QUE PAR DES COMPOSANTS SONY DONT LE NUMÉRO DE PIÉCE EST INDICUÉ DANS LE PRÉSENT MANUEL OU DANS DES SUPPLÉMENTS PUBLIÉS PAR SONY. LES RÉGLAGES DE CIRCUIT DONT L'IMPORTANCE EST CRITIQUE POUR LA SÉCURITÉ DU FONCTIONNEMENT SONT IDENTIFIÉS DANS LE PRÉSENT MANUEL. SUIVRE CES PROCÉDURES LORS DE CHAQUE REMPLACEMENT DE COMPOSANTS CRITIQUES, OU LORSQU'UN MAUVAIS FONCTIONNEMENT EST SUSPECTÉ.



## SECTION 2 DISASSEMBLY

The operation instruction mentioned here are partial abstracts from the Operating Instruction Manual. The page numbers of the Operating Instruction Manual remain as in the manual.(part no: 3-856-233-11)

### Getting Started

## Welcome!

Thank you for purchasing the Sony Color Rear Video Projection TV. Here are some of the features you will enjoy with your projection TV:

- AUTO SET UP feature that allows you to set up your projection TV easily by pressing the SET UP button
- On screen menus that let you set the picture quality, sound, and other settings
- Picture-in-Picture that allows you to watch another TV channel, video or cable image as a window picture
- On/off timer that allows you to make the TV program of your choice be displayed on the screen for a specified duration
- Dynamic Focus circuitry that automatically focuses the scanning electron beam for enhanced sharpness, especially at the corners
- Universal remote commander supplied that allows you to operate Sony and other manufacturers' video equipment

### About this manual

The instructions in this manual are for models KP-41T25, KP-46S17 and KP-53S17. Before you start reading this manual, please check your model number, located at the rear of the projection TV. Model KP-46S17 is used for illustration purposes in this manual. Model KP-41T25 incorporates two tuners that enable you to operate PIP feature without connecting a VCR. Models KP-46S17 and KP-53S17 incorporate one tuner. These models must be connected to a VCR to enjoy PIP. The differences in specifications are indicated in the text.

Instructions in this manual are based on use of the remote commander. You can also use the controls on the projection TV if they have the same name as those on the remote commander.

## Precautions

This projection TV operates on extremely high voltage. To prevent fire or electric shock, please follow the precautions below.

### Safety

- Operate the projection TV only on 120 V AC.
- One blade of the plug is wider than the other for safety purposes and will fit into the power outlet only one way. If you are unable to insert the plug fully into the outlet, contact your dealer.
- Should any liquid or solid object fall into the cabinet, unplug the projection TV and have it checked by qualified personnel before operating it further.
- Unplug the projection TV from the wall outlet if you are not going to use it for several days or more. To disconnect the cord, pull it out by the plug. Never pull the cord itself.

For details concerning safety precautions, see the supplied leaflet "IMPORTANT SAFEGUARDS."

### Note on cleaning

Clean the cabinet of the projection TV with a dry soft cloth. To remove dust from the screen, wipe it gently with a soft cloth using vertical strokes only. Stubborn stains may be removed with a cloth slightly dampened with solution of mild soap and warm water. Never use strong solvents such as thinner or benzene for cleaning. If the picture becomes dark after using the projection TV for a long period of time, it may be necessary to clean the inside of the projection TV. Consult qualified service personnel.

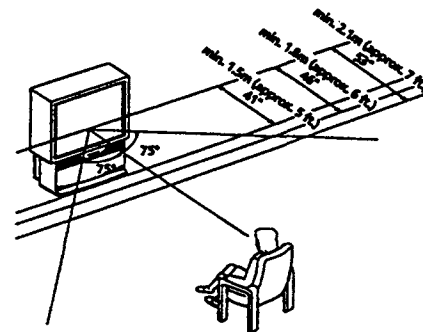
### Installing

- To prevent internal heat build-up, do not block the ventilation openings.
- Do not install the projection TV in a hot or humid place, or in a place subject to excessive dust or mechanical vibration.
- Avoid operating the projection TV at temperatures below 5°C (41°F).
- If the projection TV is transported directly from a cold to a warm location, or if the room temperature has changed suddenly, the picture may be blurred or show poor color. This is because moisture has condensed on the mirror or lenses inside. If this happens, let the moisture evaporate before using the projection TV.
- To obtain the best picture, do not expose the screen to direct illumination or direct sunlight. It is recommended to use spot lighting directed down from the ceiling or to cover the windows that face the screen with opaque drapery. It is desirable to install the projection TV in a room where the floor and walls are not of reflecting material. If necessary, cover them with dark carpeting or wall paper.

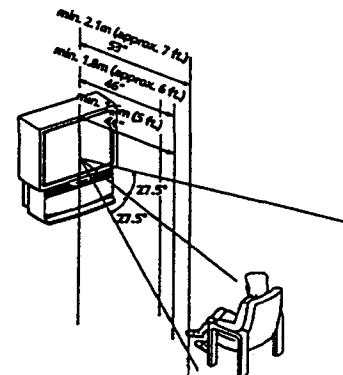
## Step 1: Installing the projection TV

For the best picture quality, install the projection TV within the areas shown below.

### Optimum viewing area (Horizontal)

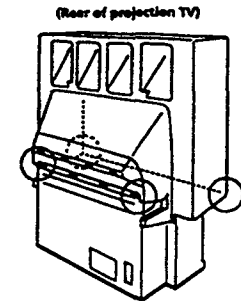


### Optimum viewing area (Vertical)



### Carrying your projection TV

Be sure to grasp the portions indicated when carrying the projection TV, and to use more than two people.



### Preparing for your projection TV

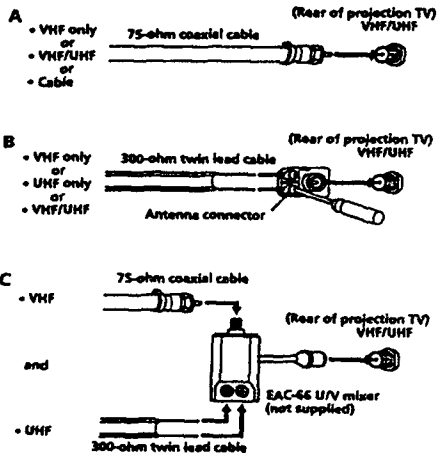
Before you use your projection TV, adjust convergence. For the procedure, see "Step 4: Setting up the projection TV automatically (AUTO SET UP)" on page 18.

## Step 2: Connections

Although you can use either an indoor antenna or outdoor antenna with your projection TV, we recommend connecting to an outdoor antenna or a cable TV system for improved picture quality.

### To an antenna

Connect your antenna cable to the VHF/UHF antenna terminal. If you cannot connect your antenna cable directly to the terminal, follow one of the instructions below depending on your cable type.

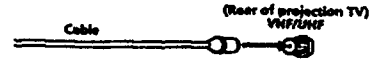


#### Notes

- Most VHF/UHF combination antennas have a signal splitter. Remove the splitter before attaching the appropriate connector.
- If you use the U/V mixer, snow and noise may appear in the picture when viewing cable TV channels over 37(W+1).

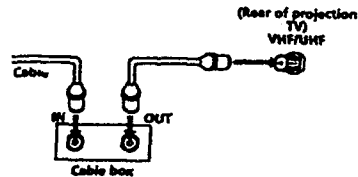
### Connecting an antenna/cable TV system without a VCR

#### To cable or antenna

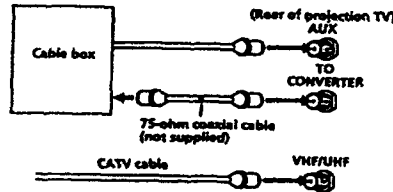


#### To cable box

If your cable company requires you to connect a cable box, make the connection as follows:



#### To cable box and cable (KP-41T25 only)



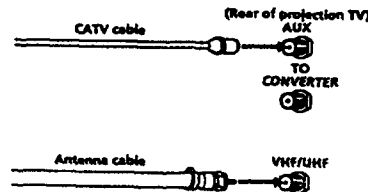
Pay cable TV systems use scrambled or encoded signals requiring the cable box\* in addition to the normal cable connection.

- \* The cable box will be supplied by the cable company.

#### Note

- You cannot watch the signal through AUX connector as a window picture.

#### To cable and antenna (KP-41T25 only)



#### Note

- Do not connect anything to the TO CONVERTER connector in this case.

### Connecting an antenna/cable TV system with a VCR

For details on connection, see the instruction manual of your VCR. For KP-46S17/53S17, a VCR must be connected to your TV to watch two TV channels at one time (PIP feature).

Before connecting, disconnect the AC power cords of the equipment to be connected.

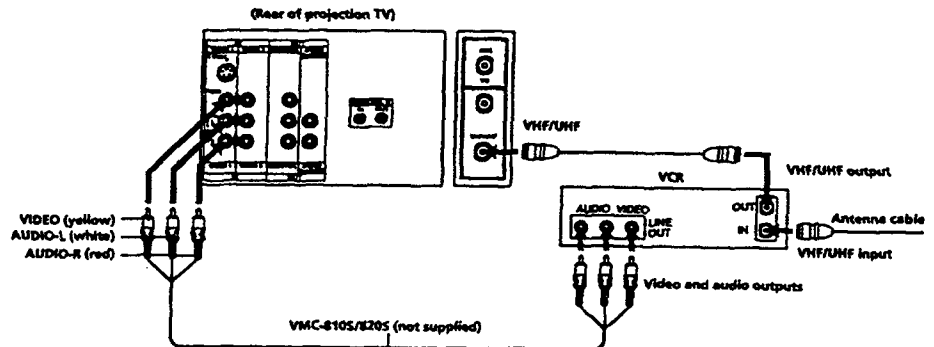
After making these connections, you will be able to do the following:

- View the playback of video tapes
- Record one TV program while viewing another program
- Watch two TV programs at one time using a window picture (Picture-in-Picture)

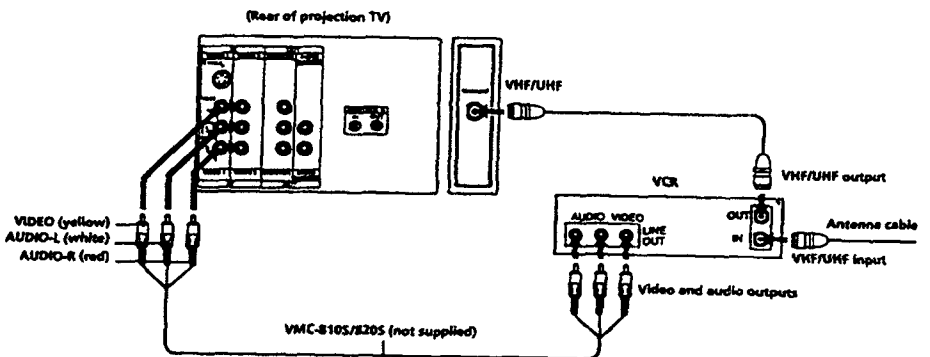
#### To a conventional VCR

##### Without a cable box

###### ■ KP-41T25



###### ■ KP-46S17/53S17



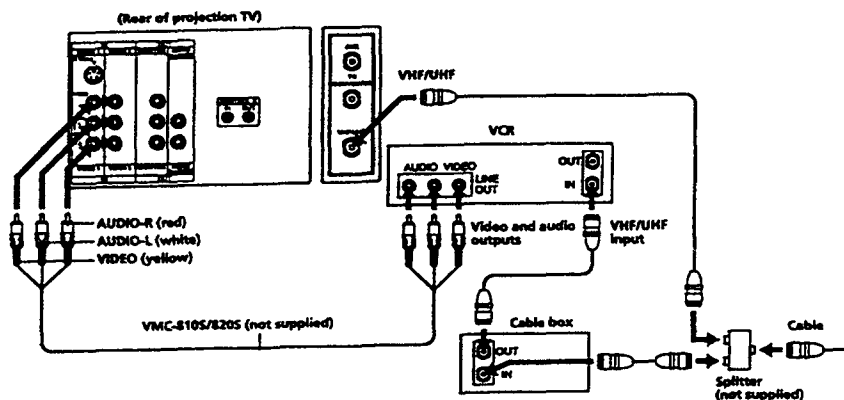
#### Notes

- To connect a monaural VCR, connect the audio output of the VCR to AUDIO-L (MONO) of VIDEO 1/3 IN on the projection TV.

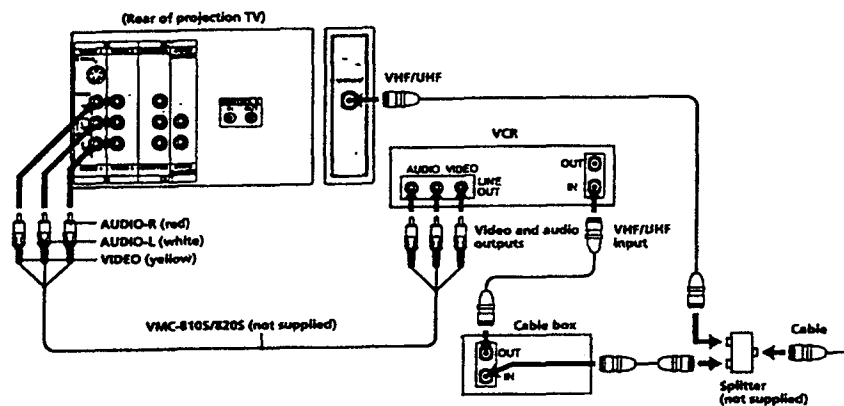
- Do not connect the cable to the S VIDEO connector on the projection TV.

## With a cable box

### ■ KP-41725



### ■ KP-46S17I53517

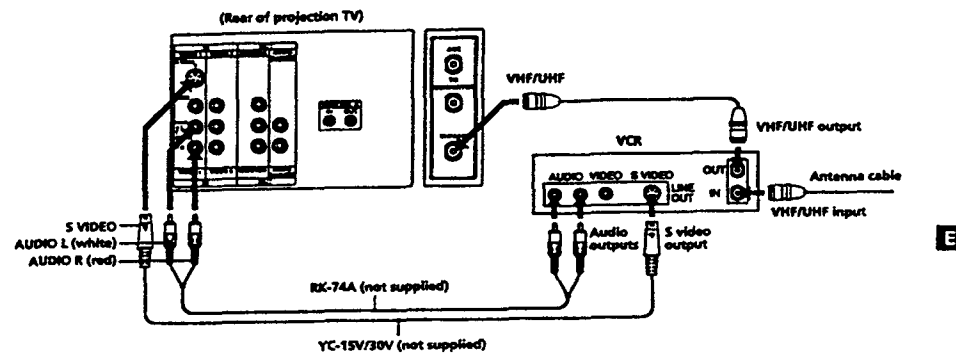


## To an S video equipped VCR

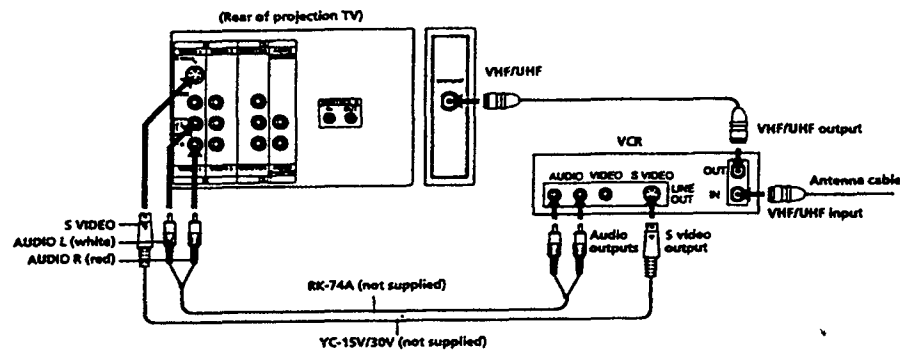
If your VCR has an S video output jack, make the connection as follows.  
Whenever you connect the cable to the S VIDEO connector, the projection TV automatically receives S video signals.

## Without a cable box

### ■ KP-41725



### ■ KP-46S17I53517

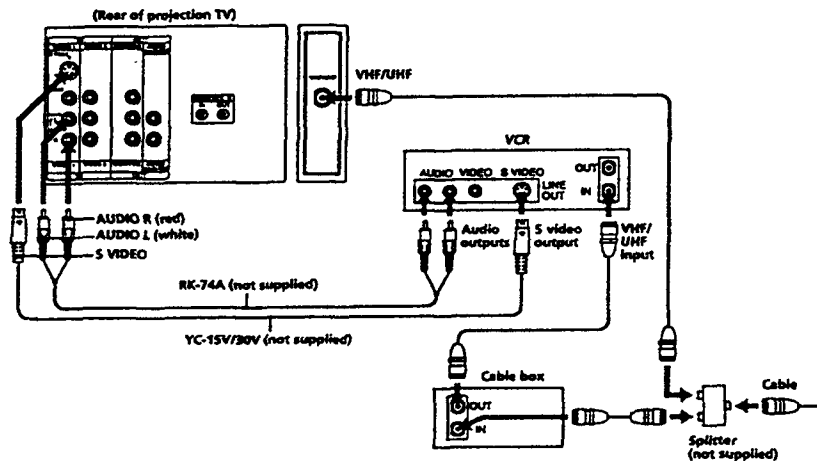
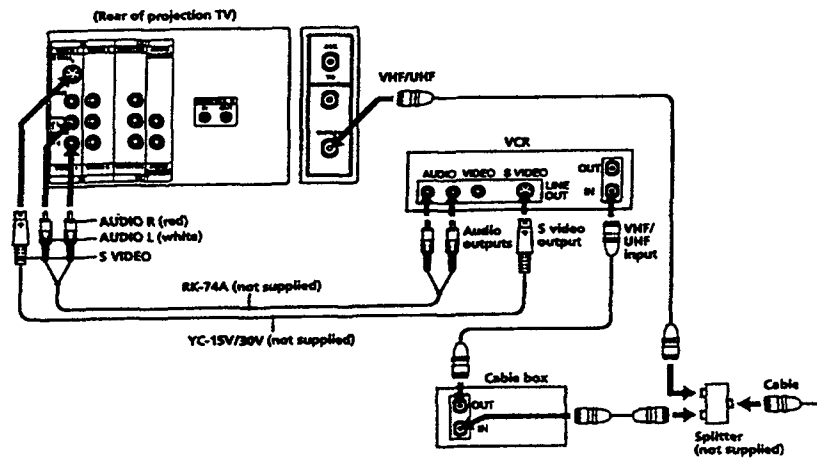


## Note

- Video signals are composed of Y (luminance) and C (chroma) signals. The S connection sends the two signals separately preventing degradation, and gives better picture quality compared to conventional connection.

## 300

■ KP-41T25

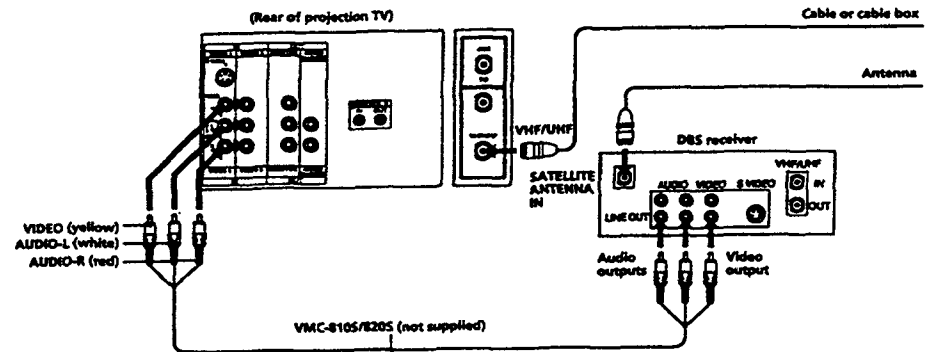


### Connecting a DBS receiver

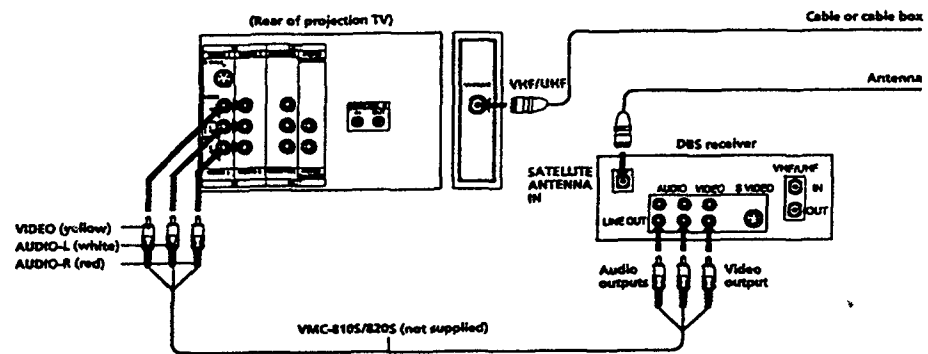
For connection details, see the instruction manual of the DBS (Digital Broadcasting Satellites) receiver.

## To a TV

■ KP-41725



■ KP-46S17/53S17

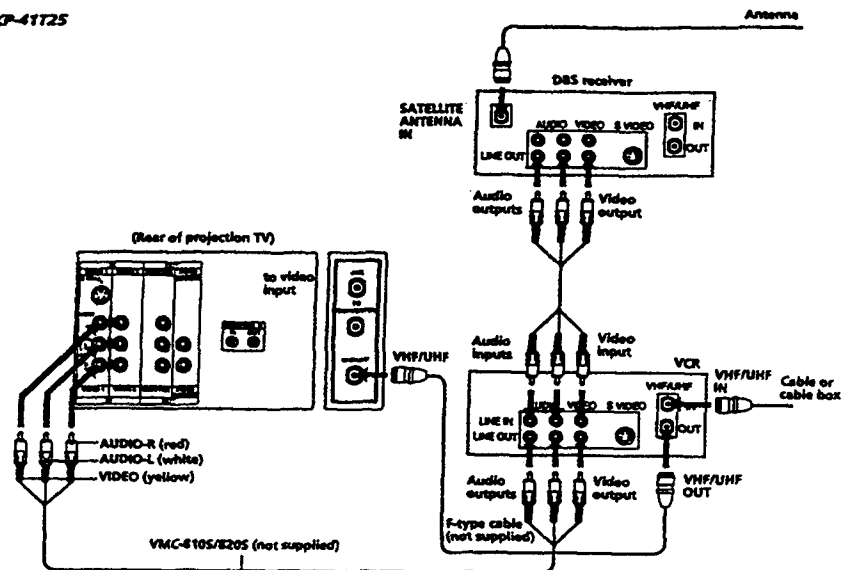


### Note

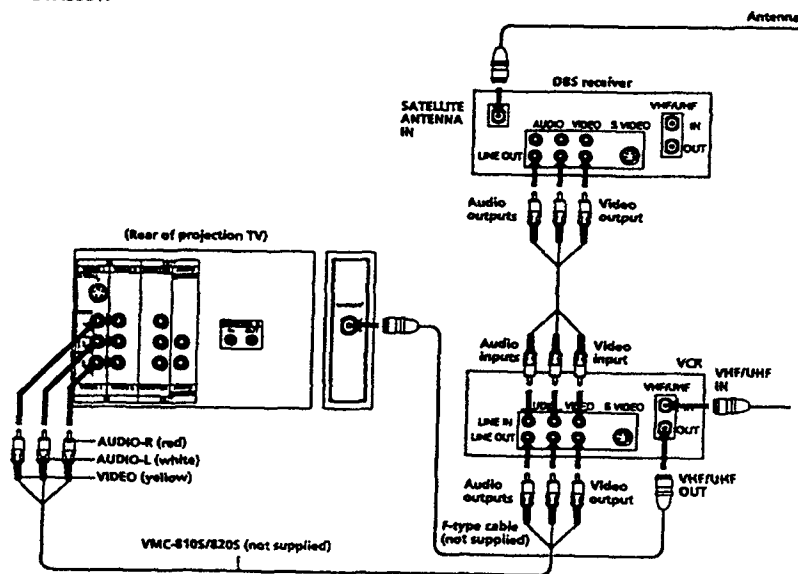
- You can use the S VIDEO jack or the composite video jack for video connection.

## To a TV and VCR

■ KP-41725



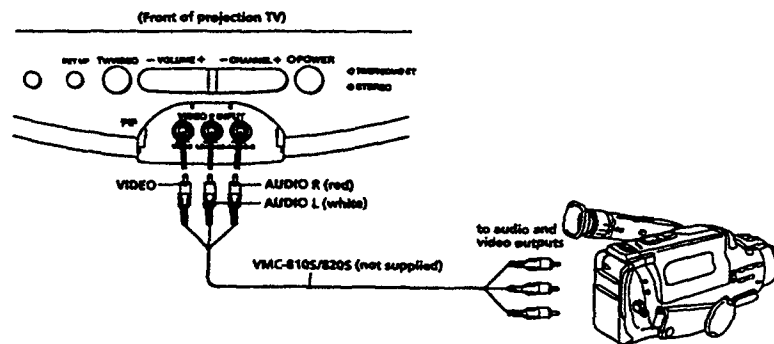
■ KP-46S17IS3517



12-EN Getting Started

## Connecting a camcorder

This connection is convenient for watching the picture from a camcorder.



### Note

- To connect a monaural camcorder, connect the audio output of the camcorder to AUDIO L (MONO) of VIDEO 2 INPUT on the projection TV.

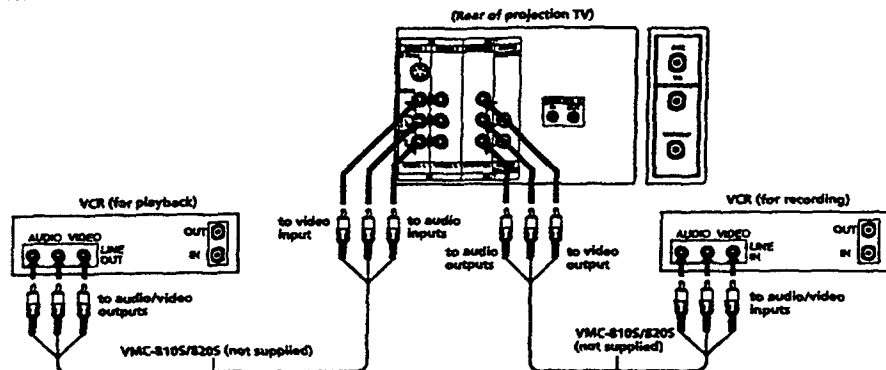
EN

Getting Started | 13-EN

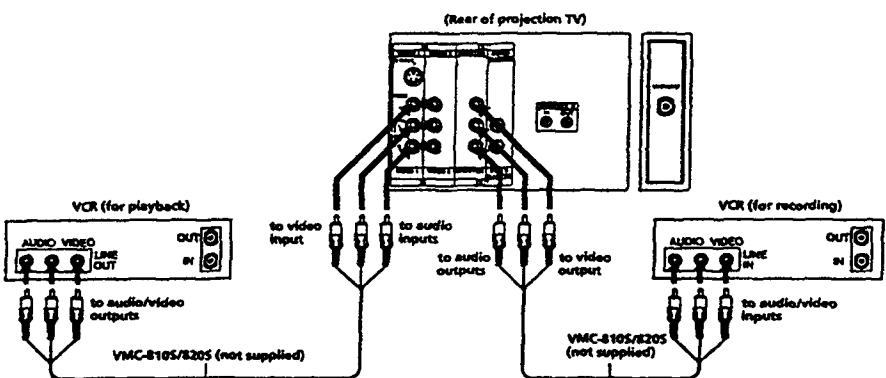
## Connecting two VCRs for tape editing

You can record input images displayed on the screen. This type of connection should be used only when you connect from the line input of one VCR, and from the line output of a second VCR.

### ■ KP-41T25



### ■ KP-46S17/53S17



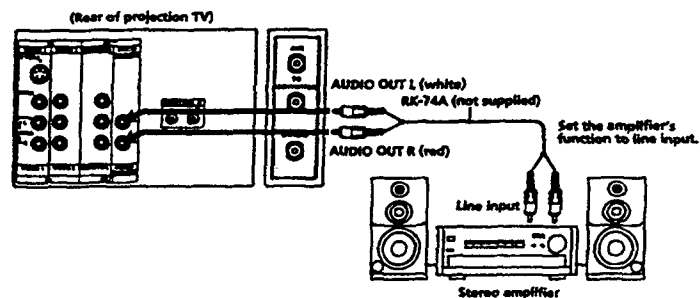
#### Notes

- Do not change the input signal while editing, or the output signal will also change.
- When connecting a single VCR to the projection TV, do not connect MONITOR OUT to the VCR's line input, while at the same time connecting from the projection TV's VIDEO IN jacks to the VCR's line output.
- You can use the S video connector to connect a VCR for playback and the composite video jack to connect a VCR for recording.

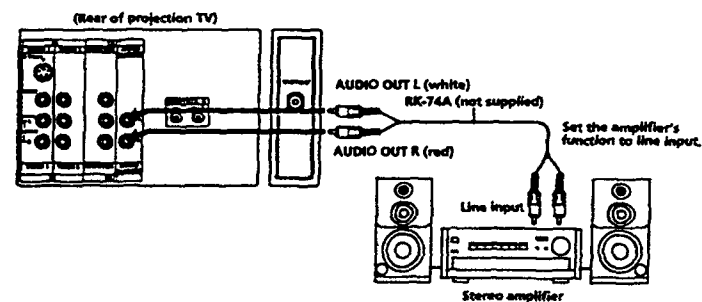
## Connecting an audio system

When connecting audio equipment, see page 31 for more information.

### ■ KP-41T25



### ■ KP-46S17/53S17



#### Note

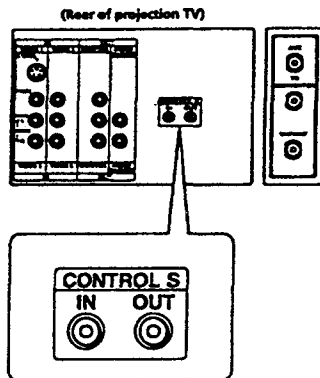
- You can adjust the bass, treble and balance, or select surround or an MTS (Multichannel TV Sound) mode with the supplied remote commander.

## Connecting other Sony equipment with CONTROL S jack

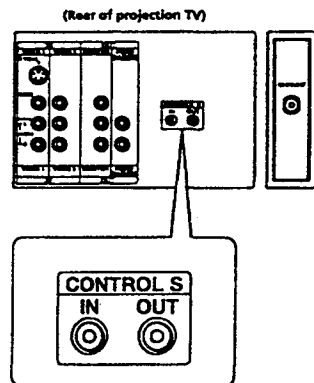
This feature allows you to control your projection TV and other Sony equipment with one remote commander.

- To control other Sony equipment with the projection TV's remote commander, connect the input of the equipment to CONTROL S OUT jack on the projection TV.
- To control the projection TV with the remote commander of other Sony equipment, connect the output of the equipment to CONTROL S IN jack on the projection TV.

### ■ KP-41725

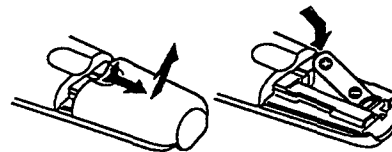


### ■ KP-46S17/S3S17



## Step 3: Setting up the remote commander

Insert one size AA (R6) battery (supplied) by matching the + and - on the battery to the diagram inside the battery compartment.



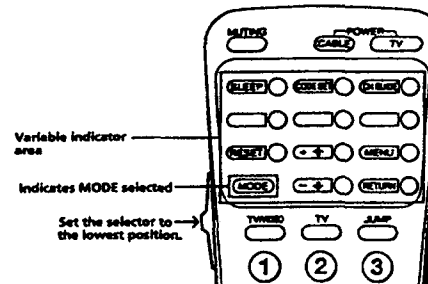
### Notes

- With normal use, the battery should last for approximately six months.
- If you do not use the remote commander for an extended period of time, remove the battery to avoid possible damage from battery leakage.
- Do not handle the remote commander roughly. Do not drop it, step on it or let it get wet.
- Do not place the remote commander in direct sunlight, near a heater, or where the humidity is high.

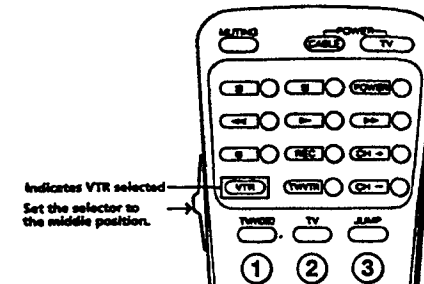
## Using the remote commander

The upper half of the remote commander has three selectable operation modes. Each button in this area has three different functions. You can select the mode by sliding a selector on the left side.

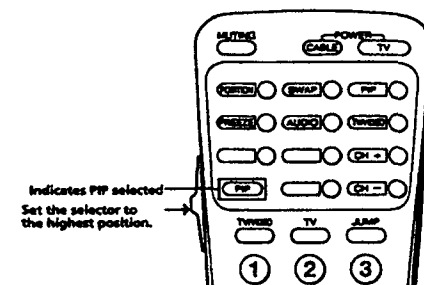
### For normal TV viewing



### For operating video equipment



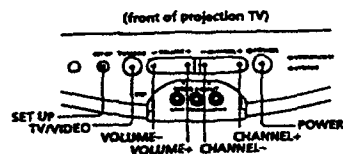
### For using the Picture-in-Picture feature



## Step 4: Setting up the projection TV automatically (AUTO SET UP)

You can set up your projection TV easily by using AUTO SET UP feature. It presets all the receivable channels, adjusts the convergence and changes the on-screen menu language. To set up the projection TV manually, see "Presetting channels" (page 22), "Setting cable TV on or off" (page 21), "Adjusting convergence" (page 20) and "Changing the menu language" (page 22).

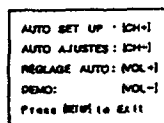
If the projection TV is set to a video input, you cannot execute AUTO SET UP. Press TV/VIDEO so that a channel number appears.



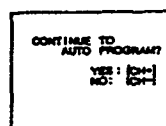
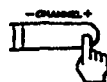
- 1 Press POWER to turn the projection TV on.



- 2 Press SET UP on the front of the projection TV.



- 3 Press CHANNEL+ to start AUTO SET UP. If you prefer Spanish or French to English, you can change the on-screen menu language. Press CHANNEL- for Spanish or VOLUME+ for French.

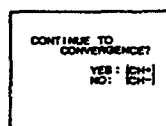


All of the menus will be set to the factory preset condition in the selected language.

- 4 Press CHANNEL+ to preset channels.



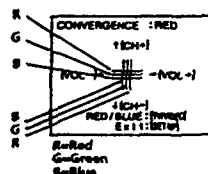
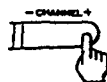
"AUTO PROGRAM" appears on the screen and the TV starts scanning and presetting channels automatically. When all the receivable channels are stored, "AUTO PROGRAM" disappears and the following menu appears. If the projection TV receives cable TV channels, CATV is set to ON automatically.



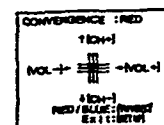
- 5 Adjust convergence.

- (1) Press CHANNEL+.

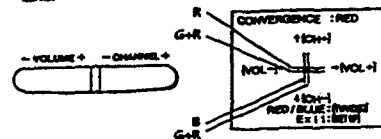
The CONVERGENCE adjustment screen appears.



- (2) Press TV/VIDEO to select RED or BLUE.



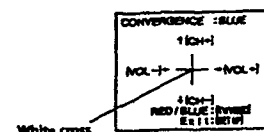
- (3) Using CHANNEL+/- or VOLUME+/-, move the line until it converges with the center green line.



To move horizontal line up/down, press CHANNEL+/-.

To move vertical line right/left, press VOLUME+/-.

- (4) Repeat steps (2) and (3) to adjust the other lines until all three lines converge and are seen as a white cross.



### Notes

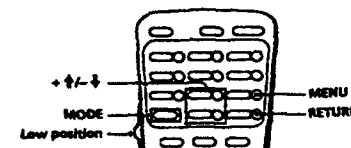
- If more than 90 seconds elapse after you press a button, the menu disappears automatically.
- In case of using the AUX connector, press the TV button on the remote commander first and make sure that "AUX" is displayed beside the channel number on the screen. Then follow steps 2 to 5 above to perform AUTO SET UP (KP-41T25 only).

### To preview the main functions (DEMO)

Press VOLUME- in step 3. The functions and menus are displayed one by one.

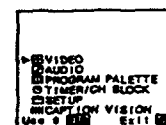
## Erasing or adding channels

After AUTO SET UP you can erase unnecessary channels or add the channels you want. Preset channels during the day rather than late at night, when some channels may not be broadcasting.

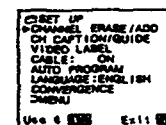
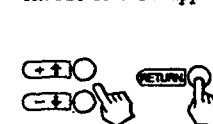


- 1 Press MENU.

The main menu appears.



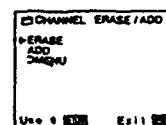
- 2 Press +↑ or -↓ to move the cursor (▸) to SET UP and press RETURN.



- 3 Make sure the cursor (▸) is beside CHANNEL ERASE/ADD and press RETURN.

If the cursor is not beside CHANNEL ERASE/ADD, press +↑ or -↓ to move the cursor and press RETURN.

The CHANNEL ERASE/ADD menu appears.



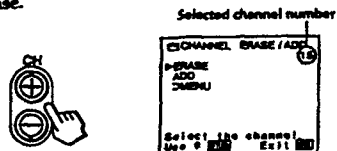
(continued)



#### 4 Erase and/or add the channel you want:

To erase an unwanted channel:

- (1) Make sure the cursor (P) is beside ERASE.
- (2) Press CH + or - to select the channel you want to erase.



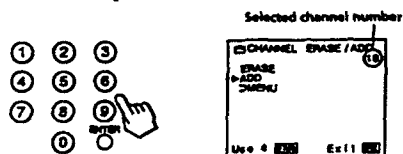
- (3) Press RETURN.

The indication "-" appears beside the channel number, showing that the channel is erased from the preset memory.



To add a channel that you want

- (1) Press + or - to select ADD.
- (2) Press 0-9 button to select the channel you want to add and press ENTER.



- (3) Press RETURN.

The indication "+" appears beside the channel number, showing that the channel is added to the preset memory.



#### 5 To erase and/or add other channels, repeat step 4.

#### 6 When you finish, press MENU.



#### Notes

- If you erase or add a VHF or UHF channel, the cable TV channel with the same number is also erased or added, and vice versa.
- If more than 90 seconds elapse after you press a button, the menu disappears automatically.
- Erasing and adding channels are also available for the AUX input (KP-41T25 only).

### Adjusting convergence (CONVERGENCE)

The projection tube image appears on the screen in three layers (red, green and blue). If they do not converge, the color is poor and the picture blurs. To correct this, adjust convergence.

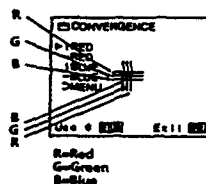
You do not have to do this procedure if you execute AUTO SET UP (page 18). Do this procedure only when you want to adjust it manually.

#### 1 Press MENU.

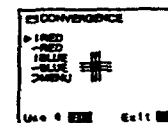
#### 2 Press + or - to move the cursor (P) to SET UP and press RETURN.

#### 3 Press + or - to move the cursor (P) to CONVERGENCE and press RETURN.

The CONVERGENCE adjustment screen appears.

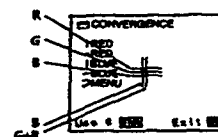


#### 4 Press + or - to move the cursor (P) to the symbol showing the line you want to adjust, and press RETURN.



- RED: Red vertical line (left/right adjustment)
- RED: Red horizontal line (up/down adjustment)
- BLUE: Blue vertical line (left/right adjustment)
- BLUE: Blue horizontal line (up/down adjustment)

#### 5 Press + or - to move the line until it converges with the center green line, and press RETURN.



To move up/right, press + or -.

To move down/left, press - or +.

#### 6 Repeat steps 4 and 5 to adjust other lines until all three lines converge and are seen as a white cross.

#### 7 Press MENU to return to the original screen.

### Setting cable TV on or off

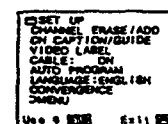
If you have connected the projection TV to a cable TV system, set CABLE to ON, the factory setting. If not, set CABLE to OFF.

You do not have to do this procedure if you execute AUTO SET UP (page 18). Do this procedure only when you want to set it manually.

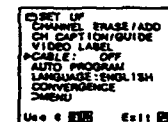
#### 1 Press MENU.

#### 2 Press + or - to move the cursor (P) to SET UP and press RETURN.

#### 3 Press + or - to move the cursor (P) to CABLE and press RETURN.



#### 4 Press + or - to select ON or OFF and press RETURN.



#### 5 Press MENU to return to the original screen.

#### Note

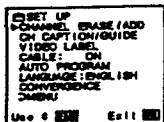
- If CABLE appears in black, the projection TV is set to a video input and you cannot select CABLE. Press TV on the remote commander so that a channel number appears.

(continued)

## Presetting channels

You can preset TV channels easily by AUTO PROGRAM feature. You do not have to do this procedure if you execute AUTO SET UP (page 18). Do this procedure only when you want to set it manually.

- 1 Press MENU.
- 2 Press +↑ or -↓ to move the cursor (▸) to SET UP and press RETURN.



- 3 Press +↑ or -↓ to move the cursor (▸) to AUTO PROGRAM and press RETURN.



"AUTO PROGRAM" appears on the screen and the projection TV starts scanning and presetting channels automatically. When all the receivable channels are stored, "AUTO PROGRAM" disappears and the lowest numbered channel is displayed.

- 4 Press MENU to return to the original screen.

### Notes

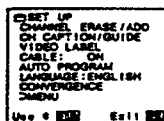
- If AUTO PROGRAM appears in black in the SET UP menu, the projection TV is set to a video input and you cannot select AUTO PROGRAM. Press TV/VIDEO or TV on the remote commander so that a channel number appears.
- If more than 90 seconds elapse after you press a button, the menu disappears automatically.
- Presetting channels is also available for the AUX input. (KP-41725 only)

## Changing the menu language

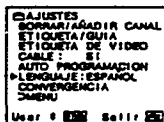
If you prefer Spanish or French to English, you can change the menu language. You do not have to do this procedure if you execute AUTO SET UP (page 18). Do this procedure only when you want to set it manually.

- 1 Press MENU.
- 2 Press +↑ or -↓ to move the cursor (▸) to SET UP and press RETURN.

- 3 Press +↑ or -↓ to move the cursor (▸) to LANGUAGE and press RETURN.



- 4 Press +↑ or -↓ to select the language and press RETURN. The menu in selected language appears.



- 5 Press MENU to return to the original screen.

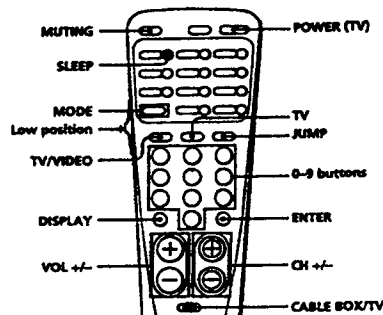
### Note

- Even when you select Spanish or French language, certain parts of the menus remain in English.

## Operations

### Watching TV programs

Check that the CABLE BOX/TV selector is set to TV.

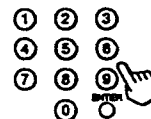


- 1 Press POWER (TV) to turn on the projection TV. The TIMER/STAND BY indicator flashes until the picture appears.



If "VIDEO" appears on the screen, press the TV/VIDEO or TV button so that a channel number appears.

- 2 Select the channel you want to watch:  
To select a channel directly  
Press the 0-9 buttons and then press ENTER. For example, to select channel 10, press 1, 0 and ENTER.



### To scan through channels

Press CH +/- until the channel you want to watch appears.



- 3 Press VOL +/- to adjust the volume.



### Switching quickly between two channels

Press JUMP. The channel you previously selected with the 0-9 buttons appears.



Pressing JUMP again switches back the channel.

### Muting the sound

Press MUTE. "MUTING" appears on the screen.



To restore the sound, press MUTE again, or press VOL +.

### Displaying on-screen information

Press DISPLAY repeatedly until the desired display appears. Each time you press DISPLAY, the display changes as follows:

Status display\* → XDS\*\* → Caption Vision\*\*\*  
↓ DISPLAY OFF



- \* Channel number, the current time, channel caption (if set), and MTS mode (if SAP is selected) are displayed. SAP indication disappears after three seconds.
- \*\* Some programs are broadcast with XDS (Extended Data Service) which shows a network name, program name, program type, program length, call letters, and time of the show. When you select XDS with the DISPLAY button, this information will be displayed on the screen if the broadcaster offers this service.

(continued)

Some programs are broadcast with Caption Vision. When you select Caption Vision with the DISPLAY button, Caption Vision will be displayed on the screen if the broadcaster offers this service. (See page 38 for selecting Caption Vision.)

To cancel the display, press DISPLAY repeatedly until "DISPLAY OFF" appears. "DISPLAY OFF" goes off after three seconds.

## Setting the Sleep Timer

The projection TV stays on for the length of time you specify and then shuts off automatically.

Press SLEEP repeatedly until the time (in minutes) you want appears. Each time you press SLEEP, the time changes as follows: 30 → 60 → 90 → OFF.



"SLEEP" appears about one minute before the projection TV shuts off.

To cancel the Sleep Timer, press SLEEP repeatedly until "SLEEP OFF" appears, or turn off the projection TV.

The sleep timer is also cancelled when you select AUTO PROGRAM under the SET UP menu.

## Watching a video input picture

Press TV/VIDEO repeatedly until the desired video input appears. Each time you press TV/VIDEO, the display changes as follows: TV → VIDEO 1 → VIDEO 2 → VIDEO 3.



To return to TV picture, press TV.

## Changing the VHF/UHF input to the AUX input (KP-41T25 only)

Press TV. "AUX" appears beside the channel number.



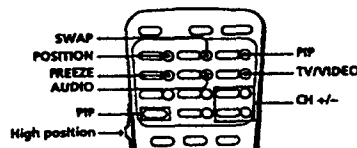
Pressing TV again switches back to the previous input.

## Watching two programs at one time — PIP

The Picture-in-Picture (PIP) feature allows you to watch both the main picture and a window picture simultaneously.

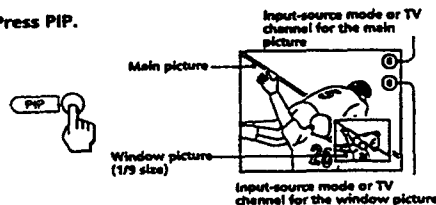
For KP-46S17/53S17, your projection TV must be connected to a VCR to watch two TV channels at one time. See "Connecting an antenna/cable TV system with a VCR" (pages 7 to 10) for connections.

For KP-41T25, the Picture-in-Picture (PIP) feature allows you to watch two TV channels at one time.

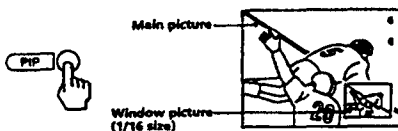


### Displaying a window picture

Press PIP.



Press PIP again to display a smaller window picture.



Each time you press PIP, the size of the window picture changes as follows: 1/9 size → 1/16 size → OFF.

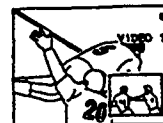
To remove the window picture, press PIP repeatedly until the window picture disappears.

### Notes

- If the main picture is not receiving an image, the window picture may be in black and white.
- The window picture sound is also output from the AUDIO (VAR/FDO OUT) jacks when you listen to it.

### Changing the window picture input mode

Press TV/VIDEO in the PIP control area of the remote commander to select the input mode. Each time you press TV/VIDEO, "TV," "VIDEO 1," "VIDEO 2" and "VIDEO 3" appear in sequence.



### Note

- If you connect your VCR without a cable box, your PIP input source is a VCR. If you connect your VCR with a cable box, your PIP input source is a VCR or cable box.

### Changing TV channels in the window picture

Press CH +/- in the PIP control area.



### Listening to the sound of the window picture

Press AUDIO.

"b" appears for a few seconds, indicating that the window picture sound is being received.

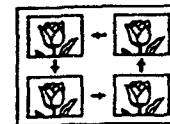


To restore the main picture sound, press AUDIO again.

### Changing the position of the window picture

Press POSITION.

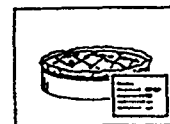
Each time you press POSITION, the window picture will move as illustrated.



### Freezing the window picture

This feature is useful when you want to write down a recipe from a cooking program, a displayed address or a phone number and so on.

Press FREEZE.

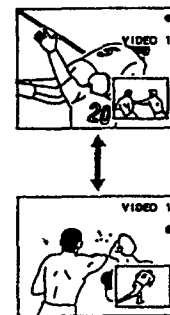


To restore the normal screen, press FREEZE again.

### Swapping the main and window pictures

Press SWAP.

Each time you press SWAP, the images and sound from the main and window pictures switch places with another.

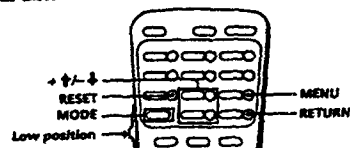


Note (KP-41T25 only)

- The channels being received through the AUX jack cannot be displayed as a window picture.

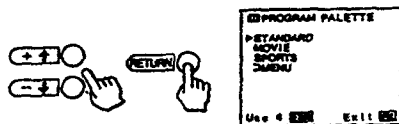
## Selecting picture and sound effects (PROGRAM PALETTE)

You can select one of three settings for picture and sound effects that best suits the program. You can also adjust picture effect for each setting to suit your taste.



1 Press MENU.

2 Press +↑ or -↓ to select PROGRAM PALETTE and press RETURN.



3 Select the item you want to adjust. For example:

(1) To select MOVIE, press +↑ or -↓ to move the cursor to MOVIE.



(2) Press RETURN.



For details on each item, see "Effect of three items" in the right column.

### Effect of three items

| Item     | Picture effect          | Sound effect                       |
|----------|-------------------------|------------------------------------|
| STANDARD | Standard                | Standard                           |
| MOVIE    | Finely detailed picture | Theatrical audio effect            |
| SPORTS   | Vivid, bright picture   | Sound with a sports stadium effect |

### Adjusting the picture in PROGRAM PALETTE

1 Press MENU.

2 Press +↑ or -↓ to select VIDEO and press RETURN.



3 Press +↑ or -↓ to select MODE and press RETURN.



4 Press +↑ or -↓ to select the item which you want to adjust and press RETURN.

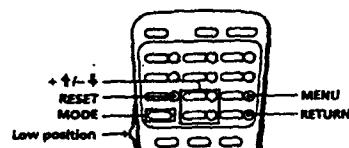


5 Adjust the picture according to the steps 3 to 5 in "Adjusting the picture" on page 27.

To restore the factory setting  
Press RESET while the VIDEO menu is displayed.

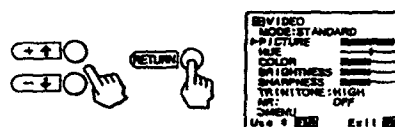
## Adjusting the picture (VIDEO)

When watching TV programs, you can adjust the quality of the picture to suit your taste. The adjusted level is stored in PROGRAM PALETTE in which that adjustment is done. You can adjust the picture of video input(s) as well.



1 Press MENU.

2 Press +↑ or -↓ to move the cursor to VIDEO and press RETURN.  
The VIDEO adjustment menu appears.

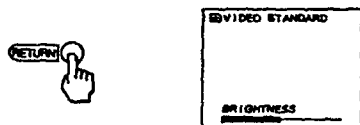


3 Select the item you want to adjust.

For example:  
(1) To adjust brightness, press +↑ or -↓ to select BRIGHTNESS.



(2) Press RETURN.



4 Adjust the selected item:

(1) Press +↑ or -↓ to adjust the item.



(2) Press RETURN.

The new setting appears in the VIDEO menu, and is stored in the displayed PROGRAM PALETTE mode.



For details on each item, see "Description of adjustable items" below.

5 To adjust other items, repeat steps 3 and 4.

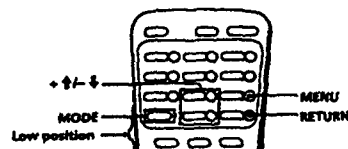
### Description of adjustable items.

| Item       | Press +↑ to                               | Press -↓ to                              |
|------------|-------------------------------------------|------------------------------------------|
| PICTURE    | Increase picture contrast for vivid color | Decrease picture contrast for soft color |
| HUE        | Make overall picture greenish             | Make overall picture purplish            |
| COLOR      | Increase color intensity                  | Decrease color intensity                 |
| BRIGHTNESS | Brighten the picture                      | Darken the picture                       |
| SHARPNESS  | Sharpen the picture                       | Soften the picture                       |

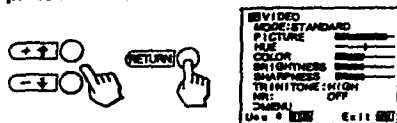
To restore the factory setting  
Press RESET on the remote commander.

## Adjusting the color temperature (TRINITONE)

The TRINITONE feature controls the color temperature, permitting white balance preference adjustment without affecting skin tones.



- 1 Press MENU.
- 2 Press + ↑ or - ↓ to select VIDEO and press RETURN.
- 3 Press + ↑ or - ↓ to select TRINITONE and press RETURN.



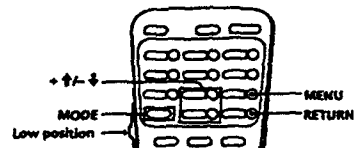
- 4 Press + ↑ or - ↓ to select NTSC STD, MEDIUM or HIGH and press RETURN.



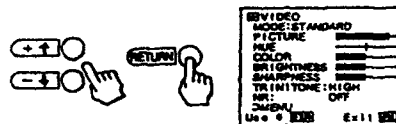
| Choose   | To                            |
|----------|-------------------------------|
| NTSC STD | Make the white color reddish. |
| MEDIUM   | Make the white color whitish. |
| HIGH     | Make the white color bluish.  |

## Reducing picture noise (NR)

You can reduce picture noise when NR is set to ON.



- 1 Press MENU.
- 2 Press + ↑ or - ↓ to select VIDEO and press RETURN.
- 3 Press + ↑ or - ↓ to select NR and press RETURN.



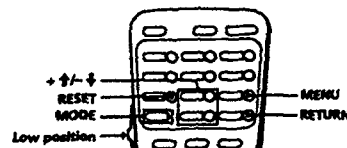
- 4 Press + ↑ or - ↓ to select ON and press RETURN.



Note  
• This feature is useful when watching a weak broadcast signal.

## Adjusting sound (AUDIO)

You can adjust the quality of the TV sound to suit your taste. \*You can adjust the sound of video input(s) as well.



- 1 Press MENU.
- 2 Press + ↑ or - ↓ to select AUDIO and press RETURN.



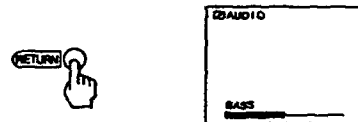
- 3 Select the item you want to adjust.

For example:

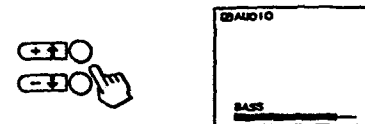
- (1) To adjust bass, press + ↑ or - ↓ to select BASS.



- (2) Press RETURN.



- 4 Adjust the selected item:  
(1) Press + ↑ or - ↓ to adjust the item.



- (2) Press RETURN.  
The new setting appears in the AUDIO menu.



For details on each item, see "Description of adjustable items" below.

- 5 To adjust other items, repeat steps 3 and 4 above.

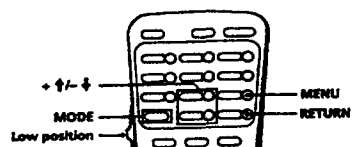
### Description of adjustable items

| Item    | Press + ↑ to                         | Press - ↓ to                        |
|---------|--------------------------------------|-------------------------------------|
| TREBLE  | Increase the treble response         | Decrease the treble response        |
| BASS    | Increase the bass response           | Decrease the bass response          |
| BALANCE | Emphasize the right speaker's volume | Emphasize the left speaker's volume |

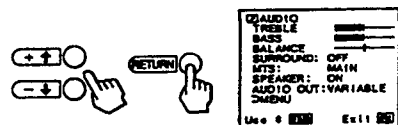
To restore the factory settings  
Press RESET on the remote commander.

## Listening to surround sound (SURROUND)

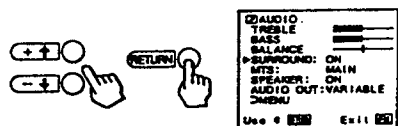
The SURROUND feature simulates sound reproduction with the atmosphere of a movie theater or a concert hall. Surround sound is only effective for stereo programs (stereo light indication on).



- 1 Press MENU.
- 2 Press +↑ or -↓ to select AUDIO and press RETURN.
- 3 Press +↑ or -↓ to select SURROUND and press RETURN.

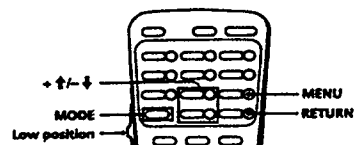


- 4 Press +↑ or -↓ to select ON and press RETURN.

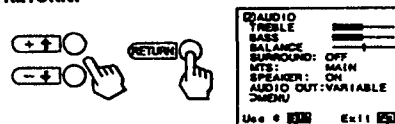


## Selecting stereo or bilingual programs (MTS)

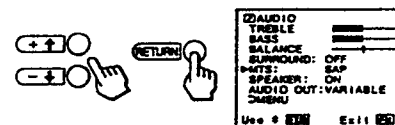
The Multichannel TV Sound (MTS) feature gives you the choice to enjoy stereo sound or Second Audio Programs (SAP) when available. The initial setting is stereo sound (MAIN).



- 1 Press MENU.
- 2 Press +↑ or -↓ to select AUDIO and press RETURN.
- 3 Press +↑ or -↓ to select MTS and press RETURN.



- 4 Press +↑ or -↓ to select MAIN, SAP or MONO and press RETURN.



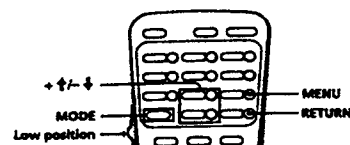
| Choose | To                                                                                                                   |
|--------|----------------------------------------------------------------------------------------------------------------------|
| MAIN   | Listen to stereo sound.<br>The STEREO indicator on the projection TV lights up while a stereo broadcast is received. |
| SAP    | Listen to bilingual programs.<br>The sound of non-SAP programs will be muted when SAP is selected.                   |
| MONO   | Reduce noise during stereo broadcasts.                                                                               |

### Note

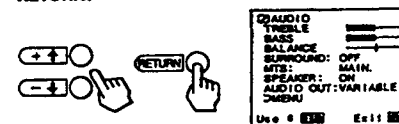
- Stereo and SAP sounds are subject to program sources.

## Setting the speaker switch (SPEAKER)

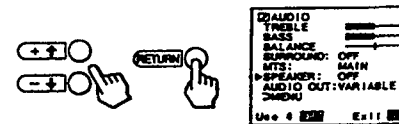
You may switch off the projection TV speakers when, for example, you want to listen to the sound through a stereo system.



- 1 Press MENU.
- 2 Press +↑ or -↓ to select AUDIO and press RETURN.
- 3 Press +↑ or -↓ to select SPEAKER and press RETURN.

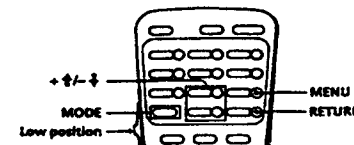


- 4 Press +↑ or -↓ to select OFF and press RETURN.

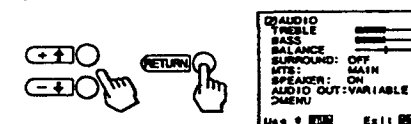


## Setting audio out (AUDIO OUT)

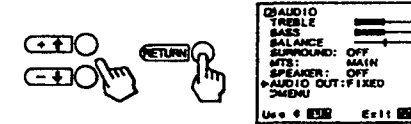
You can select audio out to variable or fixed when SPEAKER is set to OFF. Audio out is variable when SPEAKER is set to ON.



- 1 Press MENU.
- 2 Press +↑ or -↓ to select AUDIO and press RETURN.
- 3 Press +↑ or -↓ to select AUDIO OUT and press RETURN.



- 4 Press +↑ or -↓ to select VARIABLE or FIXED and press RETURN.



- VARIABLE:** Sound output varied according to the projection TV settings. You can adjust the volume, bass, treble and balance.
- FIXED:** Sound output is always fixed to a certain level. You cannot adjust the volume.

## Setting daylight saving time (DAYLIGHT SAVING)

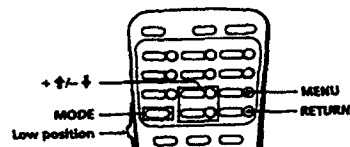
If your area uses daylight saving time, change DAYLIGHT SAVING setting depending on the season, before setting the current time.

### Daylight saving start

- After the first Sunday in April, set DAYLIGHT SAVING to YES. Current time setting (page 33) automatically moves one hour ahead.

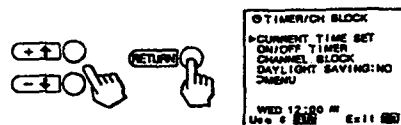
### Daylight saving end

- After the last Sunday in October, set DAYLIGHT SAVING to NO. Current time setting automatically moves one hour back.

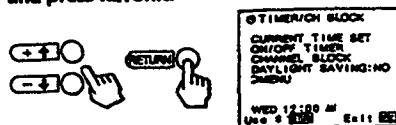


### 1 Press MENU.

### 2 Press + or - to move the cursor (P) to TIMER/CH BLOCK and press RETURN.



### 3 Press + or - to select DAYLIGHT SAVING and press RETURN.



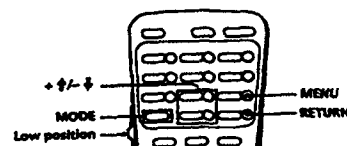
### 4 Press + or - to select YES or NO and press RETURN.



| Choose | To                            |
|--------|-------------------------------|
| YES    | Set for daylight saving start |
| NO     | Set for daylight saving end   |

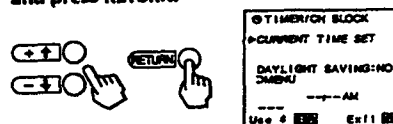
## Setting the clock: (CURRENT TIME SET)

Set the current time before using On/off Timer (page 34) and Channel Block features (page 35). For example, set the clock to 3:15 p.m., Monday.



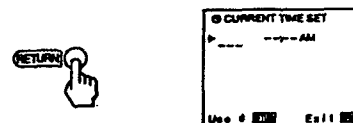
### 1 Press MENU.

### 2 Press + or - to select TIMER/CH BLOCK and press RETURN.



If you need to set DAYLIGHT SAVING, follow the procedure on the previous page.

### 3 Make sure the cursor (P) is beside CURRENT TIME SET, and press RETURN. If the cursor is not beside CURRENT TIME SET, press + or - to move the cursor and press RETURN.



### 4 Set the current time.

(1) Press RETURN to start setting the time.



(2) Press + or - to set the day and press RETURN.



(3) Using + or - and RETURN, set hour and minute in the same way as in step (2). When you press RETURN after setting the minute, the clock starts.



If you make a mistake while setting the time Press RESET while the CURRENT TIME SET menu is displayed, then repeat step 4.

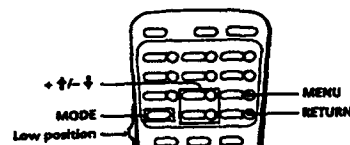
To display the current time Press DISPLAY.

### Note

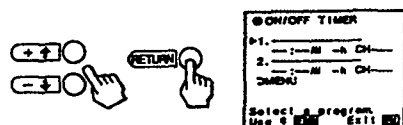
- If you unplug the projection TV or a power interruption occurs, the clock will be erased. Reset the current time.

## Setting the timer to turn the projection TV on and off (ON/OFF TIMER)

You can set the projection TV to turn on and off at the time you specify. Make sure the clock is set correctly. If it is not, set the clock first.

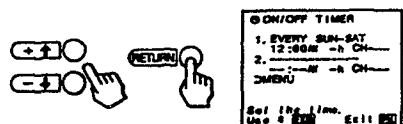


- 1 Press MENU.
- 2 Press +↑ or -↓ to select TIMER/CH BLOCK and press RETURN.
- 3 Press +↑ or -↓ to select ON/OFF TIMER and press RETURN.



### 4 Enter the ON/OFF TIMER setting.

- (1) Press +↑ or -↓ to select program 1 or 2 and press RETURN.
- (2) Press +↑ or -↓ to set the days and press RETURN. Each time you press +↑ or -↓, the days cycle as shown below.  
EVERY SUN-SAT→EVERY MON-FRI→SUNDAY→MONDAY→...→SATURDAY→EVERY SUNDAY→EVERY MONDAY→...→EVERY SATURDAY



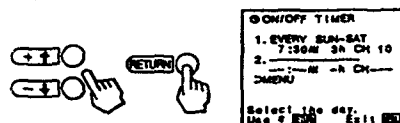
- (3) Press +↑ or -↓ to set the time (hour then minute) that you want to turn on the projection TV and press RETURN.



- (4) Press +↑ or -↓ to set the hour duration and press RETURN. You can set the hour duration by one hour up to a maximum of six hours.



- (5) Press +↑ or -↓ to select the channel and press RETURN.



The TIMER/STAND BY indicator on the projection TV lights.

- 5 To set the other program, press RETURN and repeat step 4.

One minute before the projection TV switches to turn off, a message "TV will turn off." is displayed on the screen.

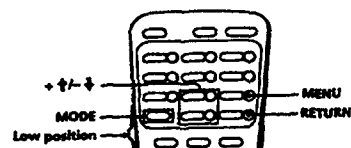
To cancel the timer  
Press RESET on the remote commander.

#### Note

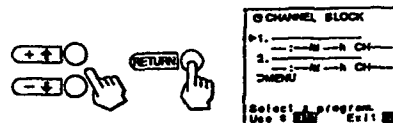
- If you unplug the projection TV or a power interruption occurs, ON/OFF TIMER settings will be erased. Reset the current time, then set the timer.

## Blocking out a channel (CHANNEL BLOCK)

This feature allows you to prevent children from watching unsuitable programs. Make sure the clock is set correctly. If it is not, set the clock first (page 33).

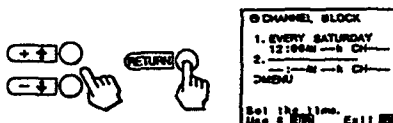


- 1 Press MENU.
- 2 Press +↑ or -↓ to select TIMER/CH BLOCK and press RETURN.
- 3 Press +↑ or -↓ to select CHANNEL BLOCK and press RETURN.



### 4 Enter a CHANNEL BLOCK setting.

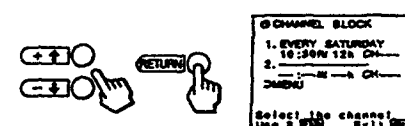
- (1) Press +↑ or -↓ to select program 1 or 2 and press RETURN.
- (2) Press +↑ or -↓ to set the days and press RETURN. Each time you press +↑ or -↓, the days cycle as shown below.  
EVERY SUN-SAT→EVERY MON-FRI→SUNDAY→MONDAY→...→SATURDAY→EVERY SUNDAY→EVERY MONDAY→...→EVERY SATURDAY



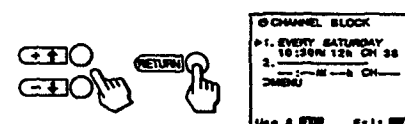
- (3) Press +↑ or -↓ to set the time (hour then minute) that you want to start blocking the channel and press RETURN.



- (4) Press +↑ or -↓ to select the hour duration you want to block and press RETURN. Each time you press RETURN, the hour duration increases by one hour up to a maximum of 12 hours.



- (5) Press +↑ or -↓ to select the channel and press RETURN.



If you select the blocked channel during the time you set, the message "BLOCKED" appears and the picture is blocked and the sound is muted.

To cancel a CHANNEL BLOCK setting  
Press RESET on the remote commander.

#### Note

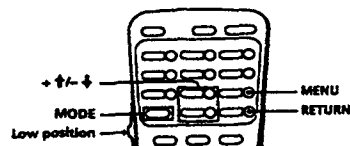
- If the CHANNEL BLOCK and ON/OFF TIMER settings are overlapped, the later time setting has priority over the other setting.



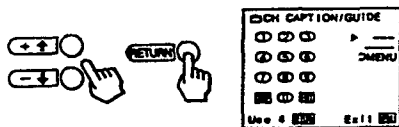
## Customizing the channel number buttons (CH CAPTION/GUIDE)

You can choose up to 12 channels, caption each channel, and assign a specific channel number button to each channel. This feature allows you to select your favorite channels easily by name. For example, you can name channel 20 "ESPN," and assign the channel number 4 button to it.

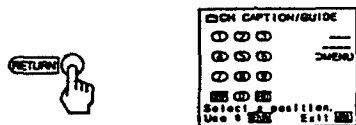
### Setting captions to favorite channels



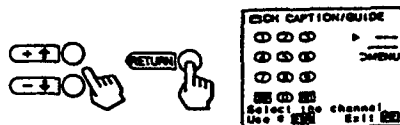
- 1 Press MENU.
- 2 Press +↑ or -↓ to select SET UP and press RETURN.
- 3 Press +↑ or -↓ to select CH CAPTION/GUIDE and press RETURN.



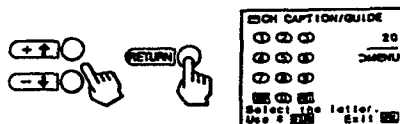
- 4 Press RETURN again.



- 5 Press +↑ or -↓ to select a channel guide number button and press RETURN. Each time you press +↑ or -↓, the channel positions change to red in turns. The channel number button you select will be the one you press to call up your favorite channel.



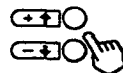
- 6 Press +↑ or -↓ to select the channel that you want to caption and press RETURN.



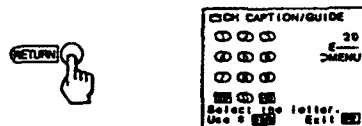
- 7 Enter the letters or numbers (up to four) to caption the channel:

(1) Press +↑ or -↓ to select the first letter (number). Each time you press +↑ or -↓, the letter (number) changes as shown below.

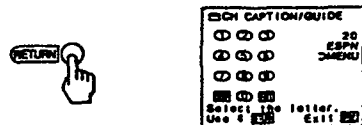
0→1→...→9→A→B→...→Z→←→/→→ (blank space)



- (2) Press RETURN.



- (3) Repeat steps (1) and (2) to select the remaining letters (numbers) and press RETURN.



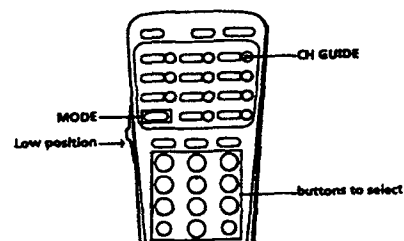
- 8 Repeat steps 4 to 7 to caption other channels.

To erase a caption  
Press RESET after step 4.

#### Notes

- The position number you already selected appears in yellow.
- If the CH CAPTION/GUIDE menu appears in black, the projection TV is set to a video input, and you cannot select CH CAPTION/GUIDE. Press TV so that a channel number appears.
- If more than 90 seconds elapse after you press a button, the menu disappears automatically.
- The channel caption feature is not available for the AUX input (KP-41725 only).

### Selecting a captioned channel



- 1 Press CH GUIDE. The CHANNEL GUIDE menu appears showing channel captions and the corresponding channel number buttons.

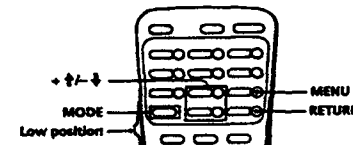


- 2 Press a channel number button, the DISPLAY or ENTER button to select the channel you want.

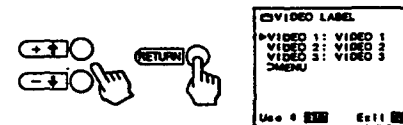
To cancel the CHANNEL GUIDE menu  
Press CH GUIDE again.

## Setting video labels (VIDEO LABEL)

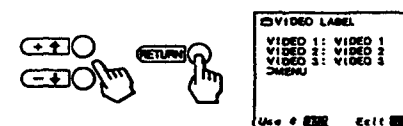
This feature allows you to label each input mode so that you can easily identify the connected equipment. For example, you can label VIDEO 1 IN as VHS.



- 1 Press MENU.
- 2 Press +↑ or -↓ to select SET UP and press RETURN.
- 3 Press +↑ or -↓ to select VIDEO LABEL and press RETURN.



- 4 Press +↑ or -↓ to select the input mode you want to label and press RETURN.



(continued)

- 5 Press + ↑ or - ↓ to select the label and press RETURN.



Each time you press + ↑ or - ↓, the label changes as shown below.

VIDEO 1  
VIDEO 1 → S-VIDEO → BETA → 8mm → VHS → LD → DBS

VIDEO 2  
VIDEO 2 → BETA → 8mm → VHS → LD → DBS

VIDEO 3  
VIDEO 3 → BETA → 8mm → VHS → LD → DBS

- 6 Repeat steps 4 and 5 to label other input modes.

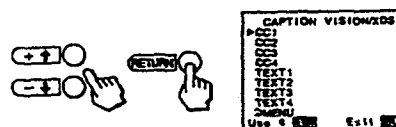
**Note**  
• If more than 90 seconds elapse after you press a button, the menu disappears automatically.

## Displaying Caption Vision (CAPTION VISION/ XDS)

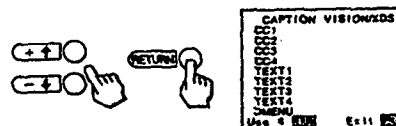
Some programs are broadcast with Caption Vision. To display Caption Vision, select either CC1, CC2, CC3, CC4, TEXT1, TEXT2, TEXT3 or TEXT4 from the menu. CC1, CC2, CC3 or CC4 shows you a caption, that is a printed version of the dialog or sound effects of a program. (The mode should be set to CC1 for most programs.) TEXT1, TEXT2, TEXT3 or TEXT4 shows you text, that is information presented using either half or the whole screen. It is not usually related to the program.

- 1 Press MENU.

- 2 Press + ↑ or - ↓ to select CAPTION VISION/ XDS and press RETURN.



- 3 Press + ↑ or - ↓ to select the caption type and press RETURN.  
The selected caption type is colored green.



To turn off the captions or text  
Press DISPLAY on the remote commander.  
Each time you press DISPLAY, the display changes as follows:  
on-screen information → XDS → Caption Vision or Text  
DISPLAY OFF

"DISPLAY OFF" goes off after three seconds.

\* Some programs are broadcast with XDS service which shows a network name, program name, program length, call letters and time of the show. When you select XDS with the DISPLAY button, this information will be displayed on the screen if the broadcaster offers this service.

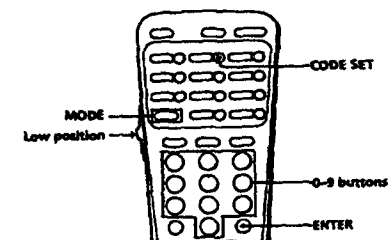
### Note

• Captions may appear with a white box or another error instead of a certain word. Poor reception of TV programs can also cause errors in Closed Caption.

## Operating video equipment

You can operate a piece of video equipment that has an infrared remote sensor with the supplied remote commander. Before operating, set the manufacturer's code number.

### Setting the manufacturer's code



While holding down CODE SET, press 0 - 9 to enter the manufacturer's code number (see the chart on page 35) and press ENTER. For example, to operate a Sony 8 mm VCR, press 0, 2 and ENTER.



(continued)

## Manufacturer code numbers

| Manufacturer     | Code number    |
|------------------|----------------|
| SONY             | 01, 02, 03     |
| CANON            | 05             |
| EMERSON          | 22, 30, 33     |
| FISHER           | 10, 11, 12, 15 |
| FUNAI            | 29             |
| GENERAL ELECTRIC | 05, 08         |
| GOLDSTAR         | 25             |
| HITACHI          | 07, 08, 36     |
| JVC              | 16, 35         |
| MAGNAVOX         | 05, 06, 09     |
| DAEWOO           | 18, 19, 26, 27 |
| MULTITECH        | 29             |
| NEC              | 16, 23, 31     |
| PANASONIC        | 05, 06, 37     |
| PHILCO           | 05, 06         |
| PHILIPS          | 05, 06, 09     |
| QUASAR           | 05, 06         |
| RCA              | 07, 08         |
| SAMSUNG          | 24, 32         |
| SANYO            | 11, 15         |
| SCOTT            | 21             |
| SHARP            | 13, 14         |
| SHINTOM          | 34             |
| SYLVANIA         | 05, 06, 09     |
| SYMPHONIC        | 29             |
| TEKNIKA          | 28, 29         |
| TOSHIBA          | 20, 21         |
| TOTE VISION      | 25             |
| ZENITH           | 17             |

## MDP manufacturer code numbers

| Manufacturer | Code number |
|--------------|-------------|
| SONY         | 04          |
| KENWOOD      | 58          |
| MAGNAVOX     | 52          |
| MARANTZ      | 54          |
| MITSUBISHI   | 51          |
| PANASONIC    | 55          |
| PHILIPS      | 52          |
| PIONEER      | 51          |
| RCA          | 51          |
| SANYO        | 57          |
| SHARP        | 56          |
| YAMAHA       | 53          |

### Notes

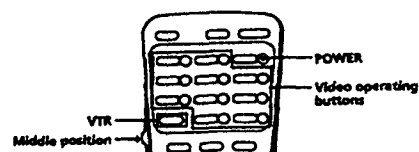
- If more than one code number is listed, try entering them one by one, until you come to the correct code for your equipment.
- In some rare cases, you may not be able to operate your non-Sony video equipment with this remote commander. This is because your equipment may use a code that is not provided with this remote commander. In this case, please use the equipment's own remote control unit.
- The code numbers for Sony equipment are assigned at the factory as follows:
 

|                    |                                            |
|--------------------|--------------------------------------------|
| Beta, ED Beta VCRs | 01                                         |
| 8 mm VCR           | 02                                         |
| VHS VCR            | 03 (preset code for this remote commander) |

### Caution

When you remove a battery from the remote commander, the code may revert to 03. Reset the codes each time you replace the battery, if necessary.

## Operating video equipment



Use the video operating buttons on the remote commander to operate the video equipment.

| Operating a VCR                            | Buttons on the remote commander |
|--------------------------------------------|---------------------------------|
| To turn on or off                          | Press POWER                     |
| To change channels                         | Press CH +/-                    |
| To record                                  | Press ● and REC simultaneously  |
| To play                                    | Press ►                         |
| To stop                                    | Press ■                         |
| To fast forward                            | Press ►►                        |
| To rewind the tape                         | Press ◄◄                        |
| To pause                                   | Press                           |
| To search the picture forward and backward | Press ►► or ◄◄ during playback  |

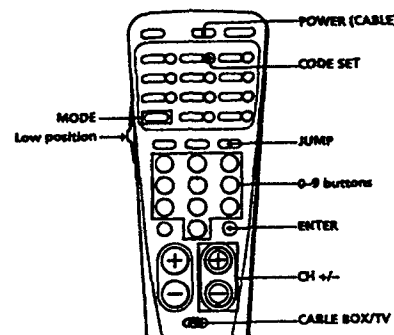
| Operating a laser-disc player              | Buttons on the remote commander                |
|--------------------------------------------|------------------------------------------------|
| To play                                    | Press ►                                        |
| To stop                                    | Press ■                                        |
| To pause                                   | Press                                          |
|                                            | To resume normal playback, press again.        |
| To search the picture forward and backward | Keep pressing ►► or ◄◄ during playback         |
|                                            | To resume normal playback, release the button. |
| To search the chapter forward and backward | Press CH +/-                                   |

### Notes

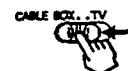
- If the video equipment does not have a certain function, the corresponding button on this remote commander will not operate.

## Operating a cable box

You can operate a connected cable box with the supplied remote commander. Before operating, set the manufacturer's code number.



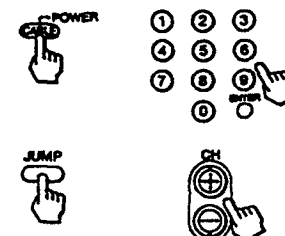
1 Set the CABLE BOX/TV selector to CABLE BOX.



2 While holding down CODE SET, press 0 - 9 to enter the manufacturer's code number (see the chart in the right column) and press ENTER. For example, to operate a Zenith cable box, press 6 and 8 and press ENTER.



3 Use POWER (CABLE) and the projection TV control buttons (0 - 9, ENTER, JUMP and CH +/-) to operate the cable box.



To operate the projection TV

Set the CABLE BOX/TV selector to TV. Then use the projection TV control buttons to control the projection TV.

For more details on operating the cable box Refer to the operating instructions that come with the cable box.

## Manufacturers and code numbers (cable box)

| Manufacturer       | Code number                |
|--------------------|----------------------------|
| JERROLD            | 60, 61, 62, 63, 64, 65, 73 |
| PIONEER            | 69, 70                     |
| SCIENTIFIC ATLANTA | 66, 67                     |
| TOCOM              | 71, 72                     |
| ZENITH             | 68                         |

### Notes

- If more than one code number is listed, try entering them one by one until you come to the correct code for your equipment.
- If you enter a new code number, the code number you previously entered at that setting is erased.
- In some rare cases, your equipment may use a code that is not provided with this remote commander and you may not be able to operate your cable box with the supplied remote commander. In this case, use the equipment's own remote control unit.
- When you remove a battery from the remote commander, the code may be erased. Reset the code each time you replace the battery, if necessary.

## Troubleshooting

After trying the methods below, if the problem persists, contact your nearest Sony dealer.

### No picture (screen not lit), no sound

- Make sure the power cord is connected securely.
- Check to see if the TV/VIDEO setting is correct: when watching TV, set to TV, and when watching video tapes, set to VIDEO. (page 24)
- Make sure the CABLE BOX/TV selector is in the correct position. (page 23)
- Try another channel. It could be station trouble.

### Poor or no picture (screen lit), good sound

- Adjust PICTURE in the VIDEO menu. (page 27)
- Adjust BRIGHTNESS in the VIDEO menu. (page 27)
- Adjust the convergence. (page 20)
- Check antenna/cable connections. (page 6)

### Good picture, no sound

- Press MUTING so that "MUTING" disappears from the screen. (page 23)
- Check the MTS setting in the AUDIO menu. (page 30)
- Make sure SPEAKER is set to ON in the AUDIO menu. (page 31)

### No color

- Adjust COLOR in the VIDEO menu. (page 27)
- Confirm that black and white program is not being broadcast.

### Only snow and noise appear on the screen

- Check the CABLE setting in the SET UP menu. (page 21)
- Check the antenna/cable connections. (page 6)
- Make sure the channel is broadcasting programs.

### Dotted lines or stripes

- Adjust the antenna.
- Move the projection TV away from noise sources such as cars, neon signs, and hair-dryers.

### Double images or ghosts

- Use a highly directional outdoor antenna or a cable (when the problem is caused by reflections from nearby mountains or tall buildings.)

### Cannot operate menu

- If the item you want to choose appears in black, you cannot select it. Press TV/VIDEO correctly.
- Check the CABLE setting in the SET UP menu. (page 21)

### Cannot receive upper channels (UHF) when using an antenna

- Check if CABLE is OFF in the SET UP menu. (page 21)
- Use AUTO PROGRAM to add receivable channels that are not presently in the memory. (page 22)

### Cannot receive any channels when using cable TV

- Check if CABLE is ON in the SET UP menu. (page 21)
- Use AUTO PROGRAM to add receivable channels that are not presently in the memory. (page 22)

### Remote commander does not operate

- Battery could be weak. Replace the battery. (page 17)
- Make sure the projection TV's power cord is connected securely to wall outlet.
- Set the CABLE BOX/TV selector to TV when operating your projection TV.
- Are fluorescent lights too close to the projection TV? Move lights at least 3 - 4 feet away from the projection TV.

### Commander's power, channel up/down, channel buttons do not function

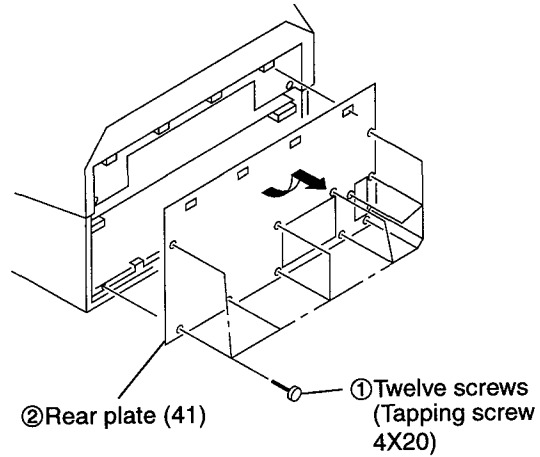
- Set the CABLE BOX/TV selector to the correct position. (page 41)

### Cannot gain enough volume when using a cable box

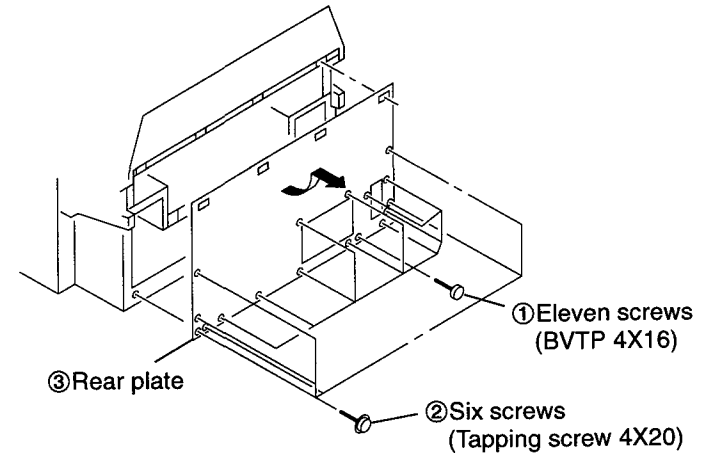
- Increase the volume at the cable box. Then set the CABLE BOX/TV selector to TV and adjust the projection TV's volume. (page 41)

## SECTION 2 DISASSEMBLY

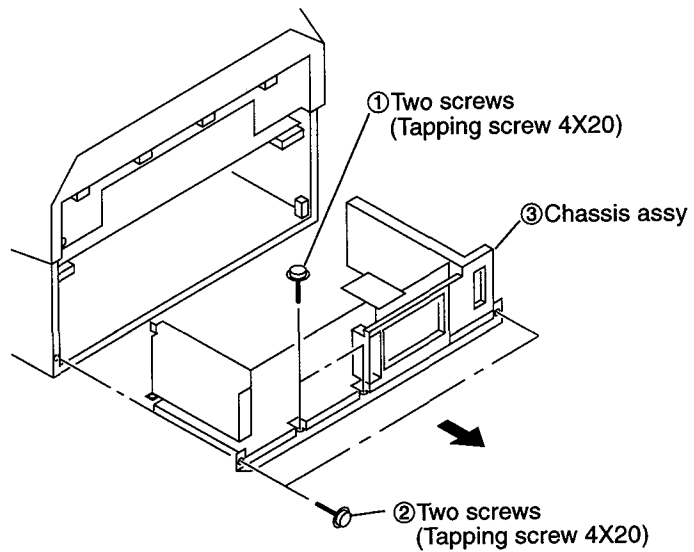
### 2-1-1. REAR PLATE REMOVAL (KP-41T25)



### 2-1-2. REAR PLATE REMOVAL (KP-46S25/53S25)

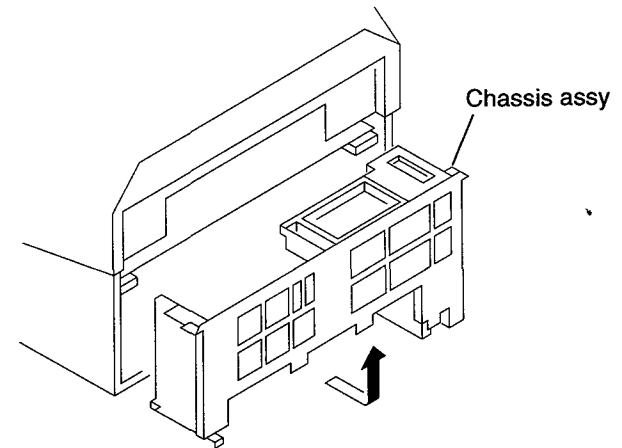


### 2-2. CHASSIS ASSY REMOVAL

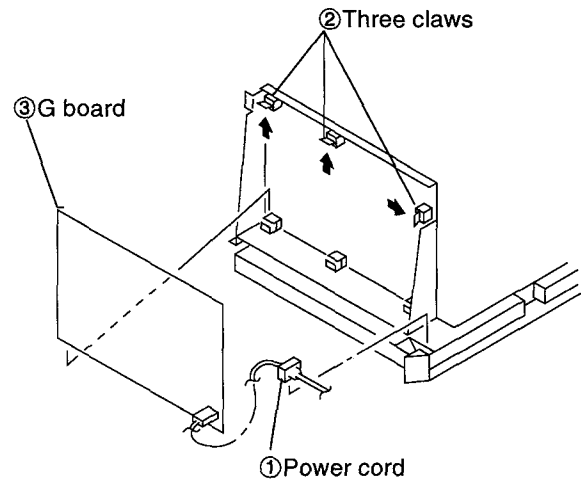


### 2-3. SERVICE POSITION

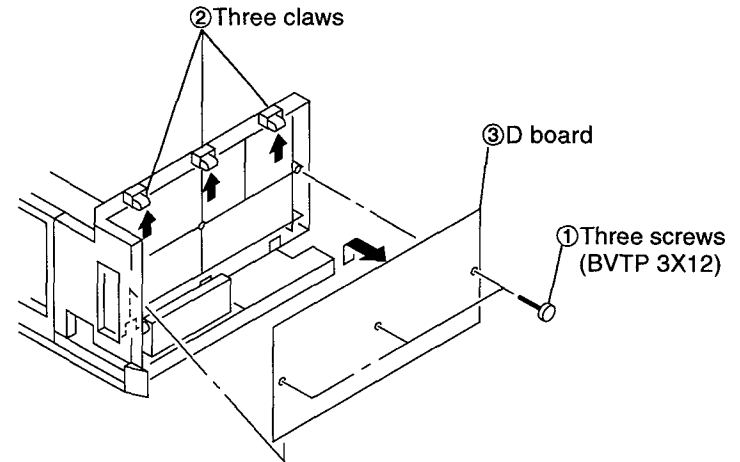
- Remove the chassis assy (Refer to 2-2.)



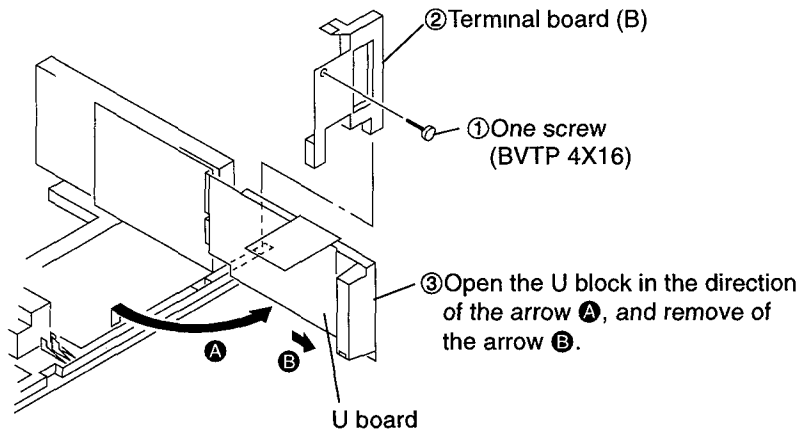
## 2-4. G BOARD REMOVAL



## 2-5. D BOARD REMOVAL

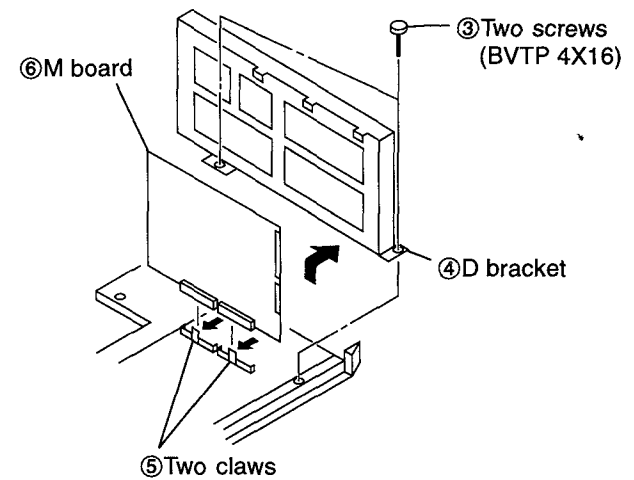


## 2-6. U BOARD REMOVAL

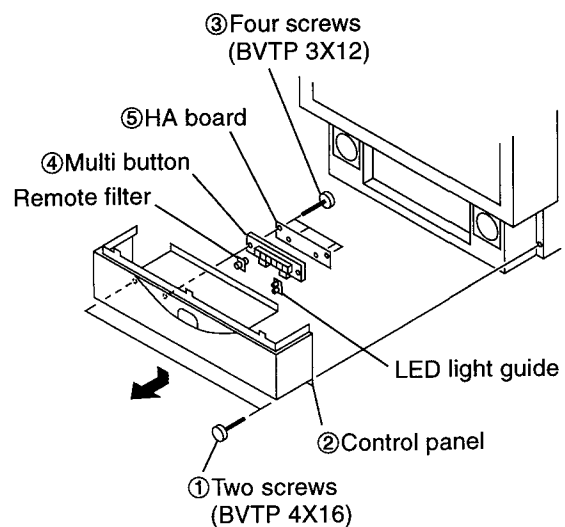


## 2-7. M BOARD REMOVAL

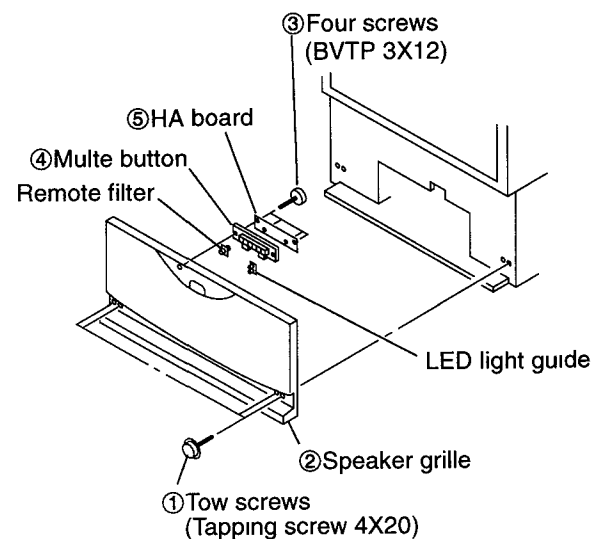
- ① Remove the D board. (Refer to 2-5.)
- ② Remove the U board. (Refer to 2-6.)



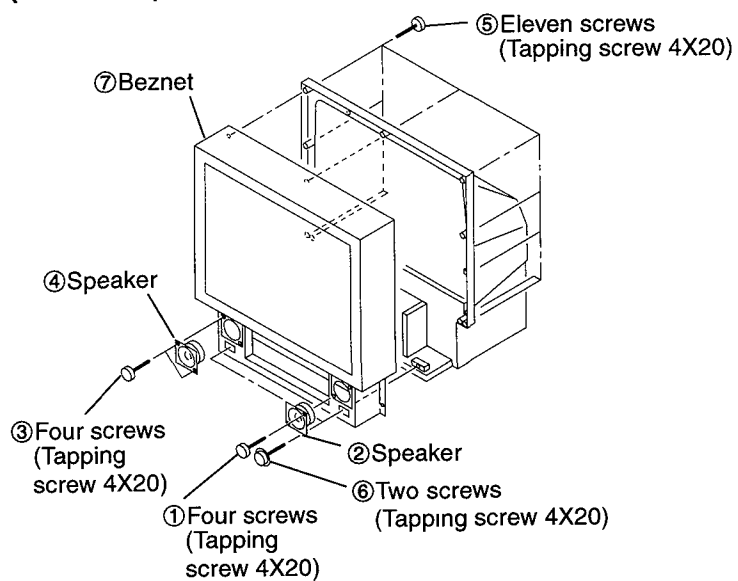
## 2-8-1. HA BOARD REMOVAL (KP-41T25)



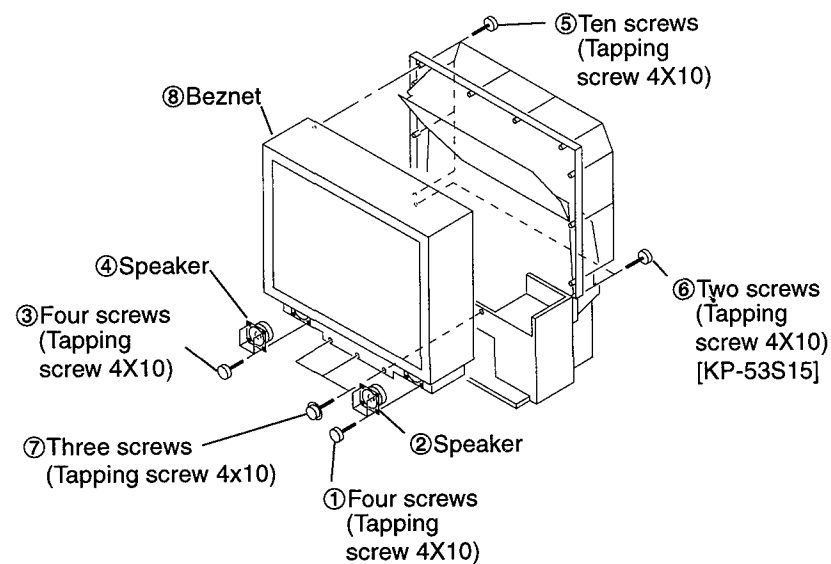
## 2-8-2. HA BOARD REMOVAL (KP-46S25/53S25)



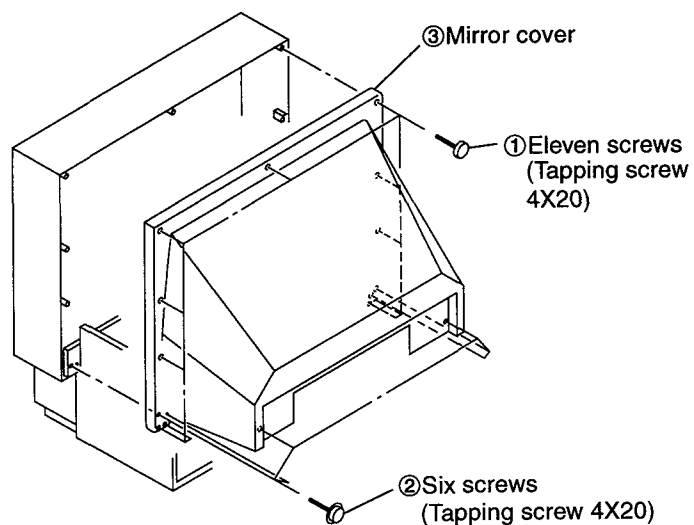
## 2-9-1. BEZNET REMOVAL (KP-41T25)



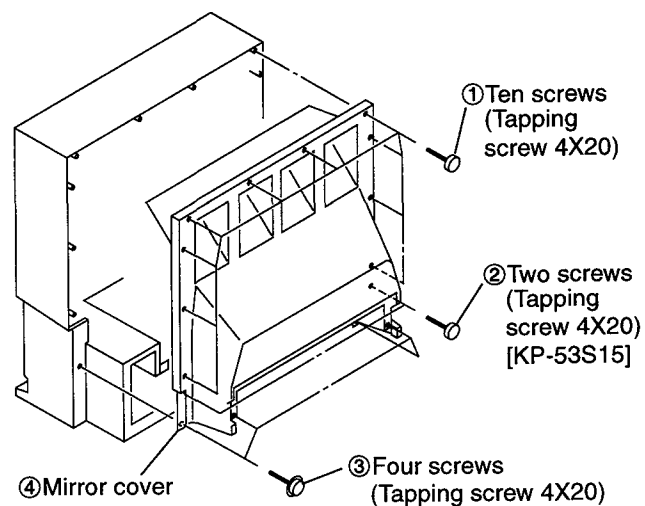
## 2-9-2. BEZNET REMOVAL (KP-46S25/53S25)



### 2-10-1. MIRROR COVER REMOVAL (KP-41T25)

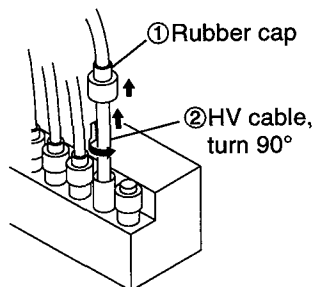


### 2-10-2. MIRROR COVER REMOVAL (KP-46S25/53S25)

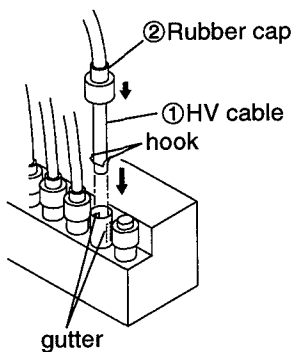


### 2-11. HIGH-VOLTAGE CABLE INSTALLATION AND REMOVAL

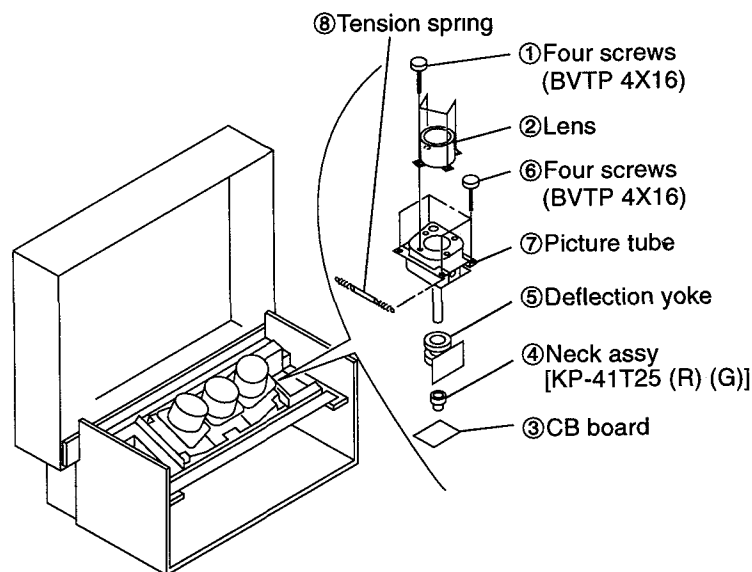
(1) Remover



(2) Installation

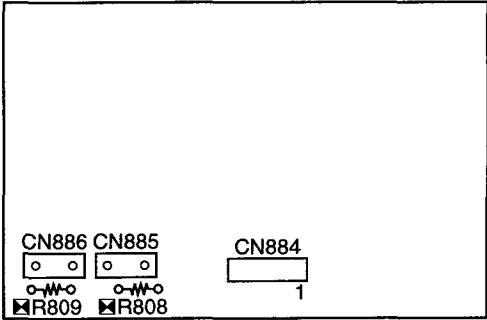
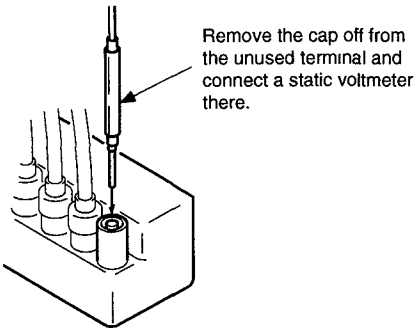
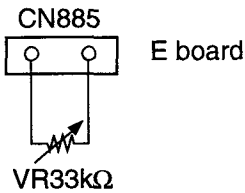


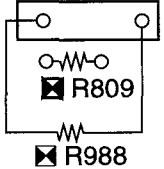
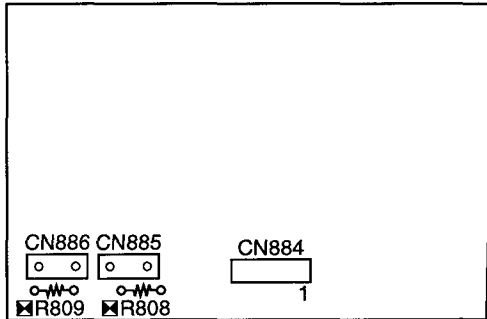
### 2-12. PICTURE TUBE REMOVAL



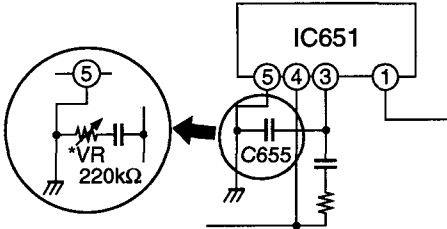
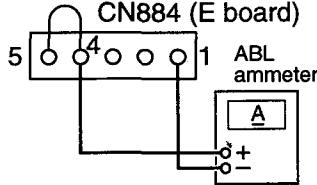


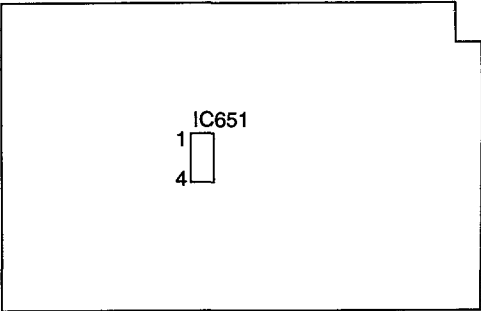
- 29 -

| ADJUSTMENT ITEM AND PROCEDURE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | EQUIPMENT AND SIGNAL                           | MEASUREMENT POSITION                                                                                                                                                                                                                                                                | ADJUSTMENT LOCATION                                                                                                        | ILLUSTRATION AND SHAPE AND NUMBER                                                                                                                                                                                                                                                                                  |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <div style="border: 1px solid black; padding: 5px; margin-bottom: 10px;"> <b>HV HOLD DOWN CIRCUIT OPERATIONS CHECK AND ADJUSTMENT (*<input checked="" type="checkbox"/> RESISTOR)</b> </div> <p>When replacing the parts marked *<input checked="" type="checkbox"/> on the right, check the HV hold down and adjust.</p> <p>1. Remove the cap for the unconnected pin in the *high-voltage block and connect a *Static Voltmeter meter.</p> <p>2. Input 130 VAC power.</p> <p>3. Receive the *Dot signal and set the *PICTURE and BRIGHTNESS settings to their minimums.</p> <p>4. Connect a *33 k<math>\Omega</math> variable resistor across the E board *CN885 connector (with the variable resistor set to its maximum).</p> | <p>* Static Voltmeter</p> <p>* Dot pattern</p> | <p>*<input checked="" type="checkbox"/> marked parts<br/>C818, D804, D806,<br/>D809, D909, D912,<br/>Q915, R809, R855,<br/>R856, R857, R858,<br/>R954, R955, R983,<br/>R984, R988, R991,<br/>R995, R996, R998,<br/>T801, T803<br/>FBT ..... E board<br/>HV Block<br/>* HV Block</p> | <p>*<input checked="" type="checkbox"/> R809, R988</p> <p>* PICTURE<br/>..... minimum<br/>BRIGHTNESS<br/>..... minimum</p> | <p>E BOARD – COMPONENT SIDE –</p>  <p>* </p> <p>* </p> |

| ADJUSTMENT ITEM AND PROCEDURE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | EQUIPMENT AND SIGNAL                         | MEASUREMENT POSITION                                                                                                                                                                                                                                                                                                                                                                                                                                         | ADJUSTMENT LOCATION                                                                                                                                                     | ILLUSTRATION AND SHAPE AND NUMBER                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p>5. Gradually lower the value of the variable resistor and check that the hold down circuit operates at a Static Voltmeter reading of *33.7 <math>\pm</math> 0.75 kVDC and that the rasters disappear.</p> <p>6. If the hold down circuit operates and the rasters disappear at a Static Voltmeter reading of *34.45VDC or higher, remove resistor *R809 and mount a *16.0 k<math>\Omega</math> 1/4W RN at *R988. If hold-down can not be adjusted to specification using a 16.0 k<math>\Omega</math> resistor, use a 13.0 k<math>\Omega</math> resistor.</p> <p>If the hold down circuit operates and the rasters disappear at a Static Voltmeter reading of *32.9 VDC or lower, remove resistor R809 and mount *6.2 k<math>\Omega</math> 1/4W RN at *R988.</p> <p>7. Check Item 5 again.</p> <div style="border: 1px solid black; padding: 5px;"> <p><b>HV REGULATION CIRCUIT CHECK AND ADJUSTMENT</b><br/> <b>(*<math>\boxtimes</math> RESISTOR)</b></p> </div> <p>When replacing the parts marked *<math>\boxtimes</math> on the right, check the HV regulation and adjust.</p> <p>1. Remove the cap for the unconnected pin in the *high-voltage block and connect a *Static Voltmeter.</p> <p>2. Input 120 VAC power.</p> <p>3. Receive the *Dot signal and set the *PICTURE and BRIGHTNESS settings to their minimums.</p> | <p>*Static Voltmeter</p> <p>*Dot pattern</p> | <p>*<math>\boxtimes</math> marked parts<br/>           C918, C930, C934,<br/>           C980, D902, D920,<br/>           D925, Q909, R808,<br/>           R851, R929, R936,<br/>           R939, R942, R944,<br/>           R945, R946, R947,<br/>           R950, R960, R965,<br/>           R967, R971, R975,<br/>           R976, R982, R983,<br/>           R985, R998<br/>           ..... E Board<br/>           HV Block<br/>           *HV Block</p> | <p>*R988</p> <p>*R988</p> <p>*<math>\boxtimes</math> R808, R983</p> <p>*PICTURE<br/>           ..... minimum<br/>           BRIGHTNESS<br/>           ..... minimum</p> | <p>*33.7 <math>\pm</math> 0.75 kVDC</p> <p>*34.45 VDC or higher</p> <p>*16.0 k<math>\Omega</math> 1/4W</p> <p>*32.95 VDC or lower</p> <p>*6.2 k<math>\Omega</math> 1/4W</p> <div> <p>* CN886 (E board)</p>  </div> <p>E BOARD – COMPONENT SIDE –</p> <div>  </div> |

| ADJUSTMENT ITEM AND PROCEDURE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | EQUIPMENT AND SIGNAL | MEASUREMENT POSITION | ADJUSTMENT LOCATION                     | ILLUSTRATION AND SHAPE AND NUMBER                                                                                                                                                                                                                                                      |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------|----------------------|-----------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p>4. Check that the Static Voltmeter reading is *31.0 <math>\pm 0.45</math> <math>\pm 0.65</math> kVDC.</p> <p>5. If the Static Voltmeter reading is *30.4 kV or lower, remove resistor *R808 and mount *5.6 k<math>\Omega</math> 1/4W RN at *R983.</p> <p>6. If the Static Voltmeter reading is *31.4 KV or higher, remove resistor *R808 and mount *8.2 k<math>\Omega</math> 1/4W RN at *R983.</p> <p>7. If the Static Voltmeter reading is *32.0 kV or higher, remove resistor *R808 and mount *10.0 k<math>\Omega</math> 1/4W RN at *R983.</p> <p>8. If any of Items 5, 6 or 7 has been implemented, check Item 4 again.</p> |                      |                      | <p>*R983</p> <p>*R983</p> <p>*R983</p>  | <p>*31.0 <math>\pm 0.45</math> <math>\pm 0.65</math> kVDC</p> <p>*30.4 kV or lower</p> <p>*5.6 k<math>\Omega</math> 1/4W</p> <p>*31.4 KV or higher</p> <p>*8.2 k<math>\Omega</math> 1/4W</p> <p>*32.0 kV or higher</p> <p>*10.0 k<math>\Omega</math> 1/4W</p> <p>* CN885 (E board)</p> |
| <p><b>HV HOLD DOWN AND HV REGULATOR SIMPLE ADJUSTMENT</b></p> <p>It is normally desirable that the HV hold down and HV regulation checks use a high-voltage meter. However, sometime one is not available, for example in the field, below is a simple adjustment method.</p> <p>When replacing parts with the  mark, replace both the resistors with the  mark *R808 (R988) and *R809 (R983) with resistors one rank lower in the E-12 series. Do not replace just one of these resistors! Always replace both with resistors one rank lower.</p>                                                                                |                      |                      | <p>*R808 (R988)</p> <p>*R809 (R983)</p> | <p>* E board</p>                                                                                                                                                                                                                                                                       |

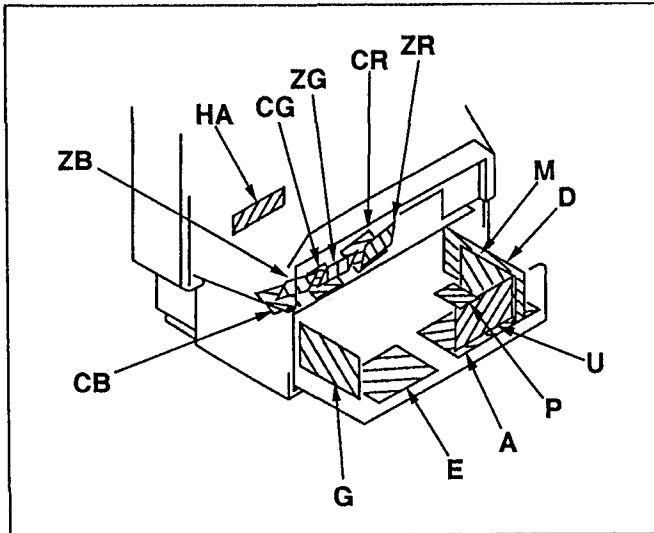
| ADJUSTMENT ITEM AND PROCEDURE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | EQUIPMENT AND SIGNAL                           | MEASUREMENT POSITION | ADJUSTMENT LOCATION                                                | ILLUSTRATION AND SHAPE AND NUMBER                                                                                                                                                   |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------|----------------------|--------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <div> <b>OVERVOLTAGE PROTECTION (OVP) OPERATIONS CHECK</b> </div> <ol style="list-style-type: none"> <li>1. Connect a *220 k<math>\Omega</math> variable resistance rheostat to the G board C655 (between Pins ③ and ⑤ of IC651).</li> <li>2. Input *120.0 <math>\pm</math> 1.0 VAC, 60 Hz power.</li> <li>3. Receive the *Dot signal and set the *PICTURE and BRIGHTNESS settings to their minimums.</li> <li>4. Gradually lower the value of the connected variable resistance and check that when the +B line *voltage is *143.5 <math>\pm</math> 5.5 VDC, the overvoltage circuit operates and the rasters disappear.</li> <li>5. Remove the variable resistor and check the +B line voltage.</li> </ol> | <p>*Dot pattern</p> <p>*Digital Multimeter</p> |                      | <p>*PICTURE<br/>..... minimum<br/>BRIGHTNESS<br/>..... minimum</p> | <p>*</p>  <p>* 120.0 <math>\pm</math> 1.0 VAC, 60 Hz</p> <p>* 143.5 <math>\pm</math> 5.5 VDC</p> |
| <div> <b>BEAM CURRENT (<math>\Sigma</math>Ik) PROTECTION CIRCUIT CHECK</b> </div> <ol style="list-style-type: none"> <li>1. Connect the *ABL ammeter between *Pins ① and ④ of the CN884 on the E board. Have Pins ② and ③ open.</li> <li>2. Input *120.0 <math>\pm</math> 1.0 VAC, 60 Hz power.</li> <li>3. Receive a *monoscope signal and set the *PICTURE and BRIGHTNESS settings to their minimums.</li> </ol>                                                                                                                                                                                                                                                                                          | <p>*Ammeter</p> <p>*Monoscope pattern</p>      |                      | <p>*PICTURE<br/>..... minimum<br/>BRIGHTNESS<br/>..... minimum</p> | <p>*</p>  <p>* 120.0 <math>\pm</math> 1.0 VAC, 60 Hz</p>                                       |

| ADJUSTMENT ITEM AND PROCEDURE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | EQUIPMENT AND SIGNAL | MEASUREMENT POSITION                    | ADJUSTMENT LOCATION                                                                             | ILLUSTRATION AND SHAPE AND NUMBER                                                                                                                                                                                                                                                                          |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------|-----------------------------------------|-------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p>4. Gradually raise the *PICTURE and BRIGHTNESS settings and check that below an *ABL current of 3.35 mA (including dark current), the beam current protection circuit operates and the rasters disappear.</p> <p><b>+B, +B MAX CHECK</b></p> <p>When replacing the G board IC651, check the following.</p> <p>1. Input <math>*120.0 \pm 1.0</math> V, 60 Hz power.</p> <p>2. Receive the *Dot signal and set the *PICTURE and BRIGHTNESS settings to their minimums.</p> <p>3. Check that the *+B line voltage is now <math>*135.0 \pm 2.0</math> VDC.</p> <p>4. Set the power supply to <math>*130.0^{+2.0}_{-0}</math> VAC.</p> <p>5. Check that the *+B line voltage is <math>*137.0</math> VDC max.</p> <p>6. If either 3 or 5 is not satisfied, replace IC651 again.</p> | *Dot pattern         | <p>*CN681 pin ①</p> <p>*CN681 pin ①</p> | <p>*PICTURE BRIGHTNESS</p> <p>*PICTURE BRIGHTNESS</p> <p>..... minimum</p> <p>..... minimum</p> | <p>*Less than 3.35 mA</p> <p>E BOARD – COMPONENT SIDE –</p>  <p>*120.0 <math>\pm</math> 1.0 V, 60 Hz</p> <p>*135.0 <math>\pm</math> 2.0 VDC</p> <p>*130.0 <math>^{+2.0}_{-0}</math> VAC</p> <p>*Less than 137.0 VDC</p> |

**MEMO**[illegible]

## SECTION 4 DIAGRAMS

### 4-1. CIRCUIT BOARDS LOCATION



### 4-2. PRINTED WIRING BOARD AND SCHEMATIC DIAGRAMS

Note :

- All capacitors are in  $\mu\text{F}$  unless otherwise noted.  $\text{pF} : \mu\text{F} \ 50\text{WV}$  or less are not indicated except for electrolytics and tantalums.
- All resistors are in ohms.  
 $\text{k}\Omega = 1000 \Omega$ ,  $\text{M}\Omega = 1000\text{k}\Omega$
- Indication of resistance, which does not have one for rating electrical power, is as follows.

Pitch : 5mm

Rating electrical power :  $\frac{1}{4}\text{W}$

- : nonflammable resistor.
- : fusible resistor.
- $\Delta$  : internal component.
- : panel designation and adjustment for repair.
- All variable and adjustable resistors have characteristic curve B, unless otherwise noted.
- : earth-chassis.
- The components identified by in this basic schematic diagram have been carefully factory-selected for each set in order to satisfy regulations regarding X-ray radiation.  
Should replacement be required, replace only with the value originally used.
- When replacing components identified by , make the necessary adjustments indicated. If results do not meet the specified value, change the component identified by and repeat the adjustment until the specified value is achieved.  
(Refer to R808, R809, R983 and R988 adjustment on Page 29 - 33)
- When replacing the part in below table, be sure to perform the related adjustment.

| Part replaced (  )                                                                                                                                                                                          | Adjustment (  )              |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------|
| HVBlock<br>Q915, D804, D806, D809, D909, D912,<br>C818, R809, R855, R856, R857, R858,<br>R954, R955, R983, R984, R988, R991,<br>R995, R996, R998, T801(FBT), T803<br>..... E BOARD                          | HV HOLD-DOWN<br>(R809, R988) |
| HV Block,<br>Q909, D902, D920, D925, C918, C930,<br>C980, R808, R851, R929, R936, R939,<br>R942, R944, R945, R946, R947, R950,<br>R960, R965, R967, R971, R975, R976,<br>R982, R983, R985, R998.... E BOARD | HV Regulator<br>(R808, R983) |

Reference information

|           |         |                          |
|-----------|---------|--------------------------|
| RESISTOR  | : RN    | METAL FILM               |
|           | : RC    | SOLID                    |
|           | : FPRD  | NONFLAMMABLE CARBON      |
|           | : FUSE  | NONFLAMMABLE FUSIBLE     |
|           | : RW    | NONFLAMMABLE WIREWOUND   |
|           | : RS    | NONFLAMMABLE METAL OXIDE |
|           | : RB    | NONFLAMMABLE CEMENT      |
|           | : *     | ADJUSTMENT RESISTOR      |
| COIL      | : LF-8L | MICRO INDUCTOR           |
| CAPACITOR | : TA    | TANTALUM                 |
|           | : PS    | STYROL                   |
|           | : PP    | POLYPROPYLENE            |
|           | : PT    | MYLAR                    |
|           | : MPS   | METALIZED POLYESTER      |
|           | : MPP   | METALIZED POLYPROPYLENE  |
|           | : ALB   | BIPOLAR                  |
|           | : ALT   | HIGH TEMPERATURE         |
|           | : ALR   | HIGH RIPPLE              |

- As to the voltage value shown by the semiconductors on the Schematic Diagram, see the another list.
- Readings are taken with a color-bar signal input.
- Readings are taken with a  $10\text{M}\Omega$  digital multimeter.
- Voltages are dc with respect to ground unless otherwise noted.
- Voltage variations may be noted due to normal production tolerances.
- All voltages are in V.  
\* : Measurement impossibility.
- Circled numbers are waveform references.
- : B + bus.
- : B - bus.
- : signal path.(RF)

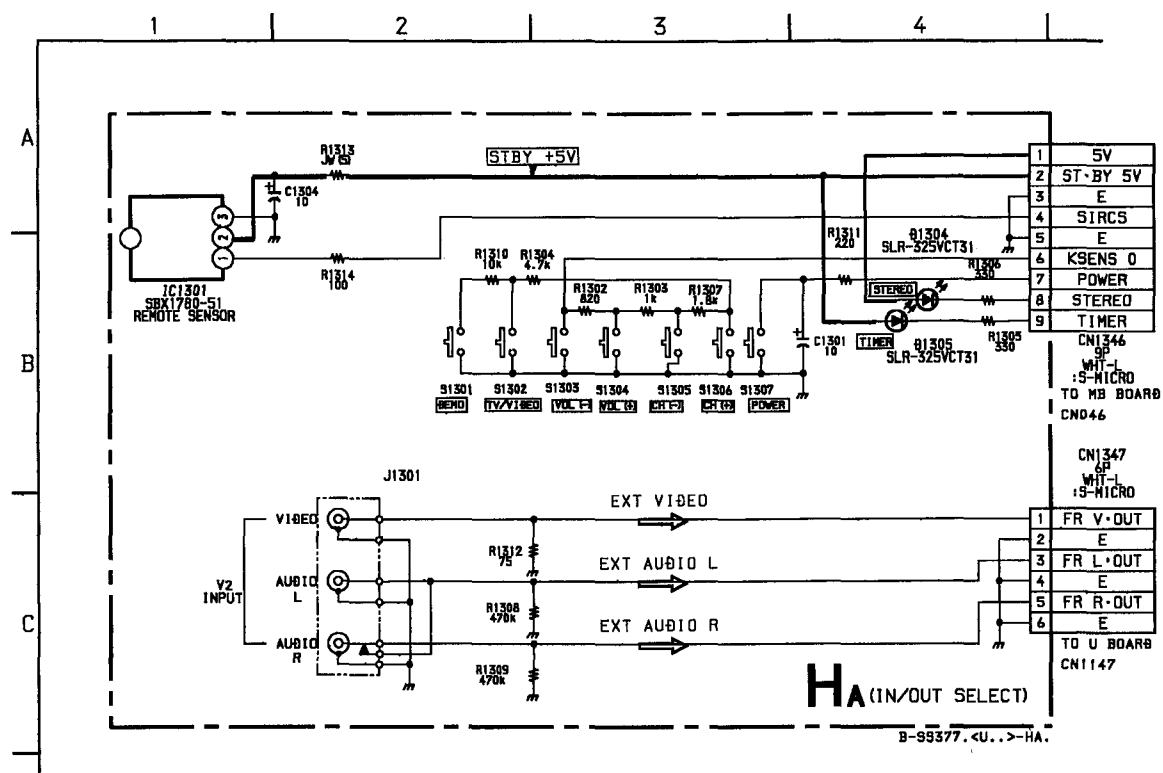
Note: The symbol display is on the component side.

The components identified by shading and mark  $\Delta$  are critical for safety. Replace only with part number specified.

The symbol indicate fast operating fuse. Replace only with fuse of same rating as marked.

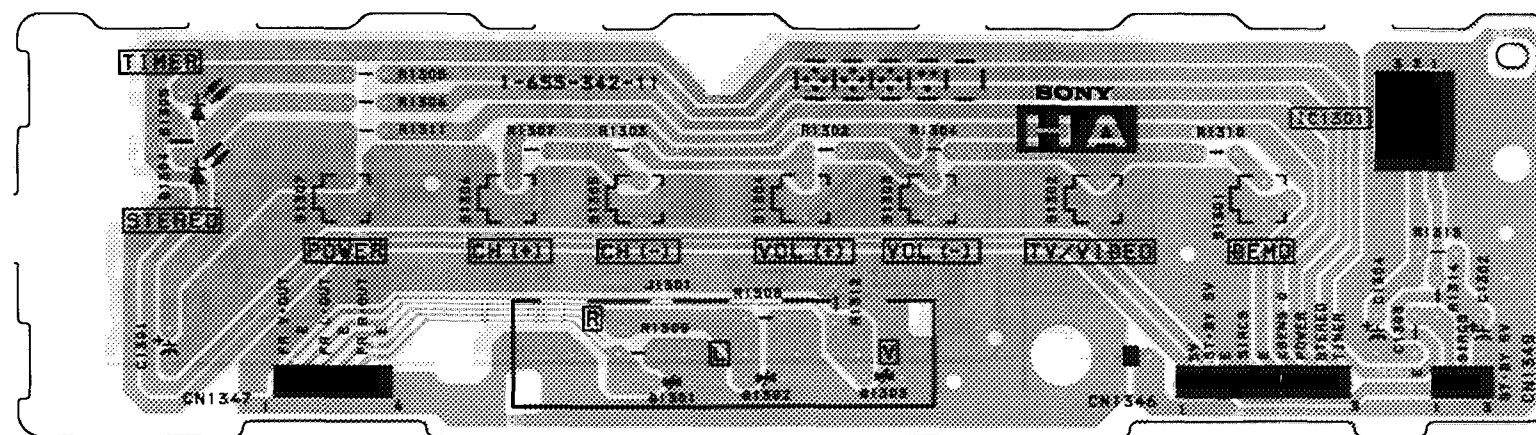
Note: Les composants identifiés par un tramé et une marque  $\Delta$  sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

Le symbole indique une fusible à action rapide. Doit être remplacée par une fusible de même valeur, comme marqué.



**HA** [ IN/OUT SELECT ]

- HA BOARD -



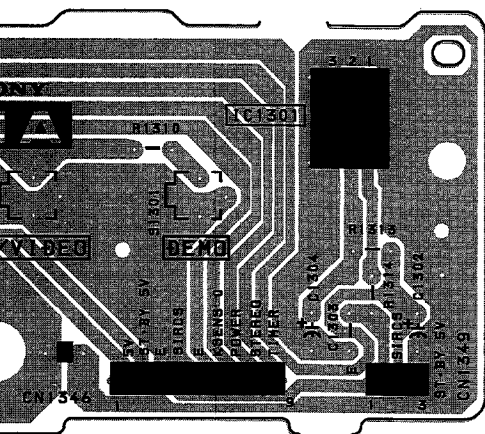


|       |
|-------|
| 5V    |
| BY 5V |
| E     |
| IRCS  |
| E     |
| ENS 0 |
| OWER  |
| ERED  |
| IMER  |

N1346  
 6P  
 HT-L  
 MICRO  
 MB BOARD  
 46

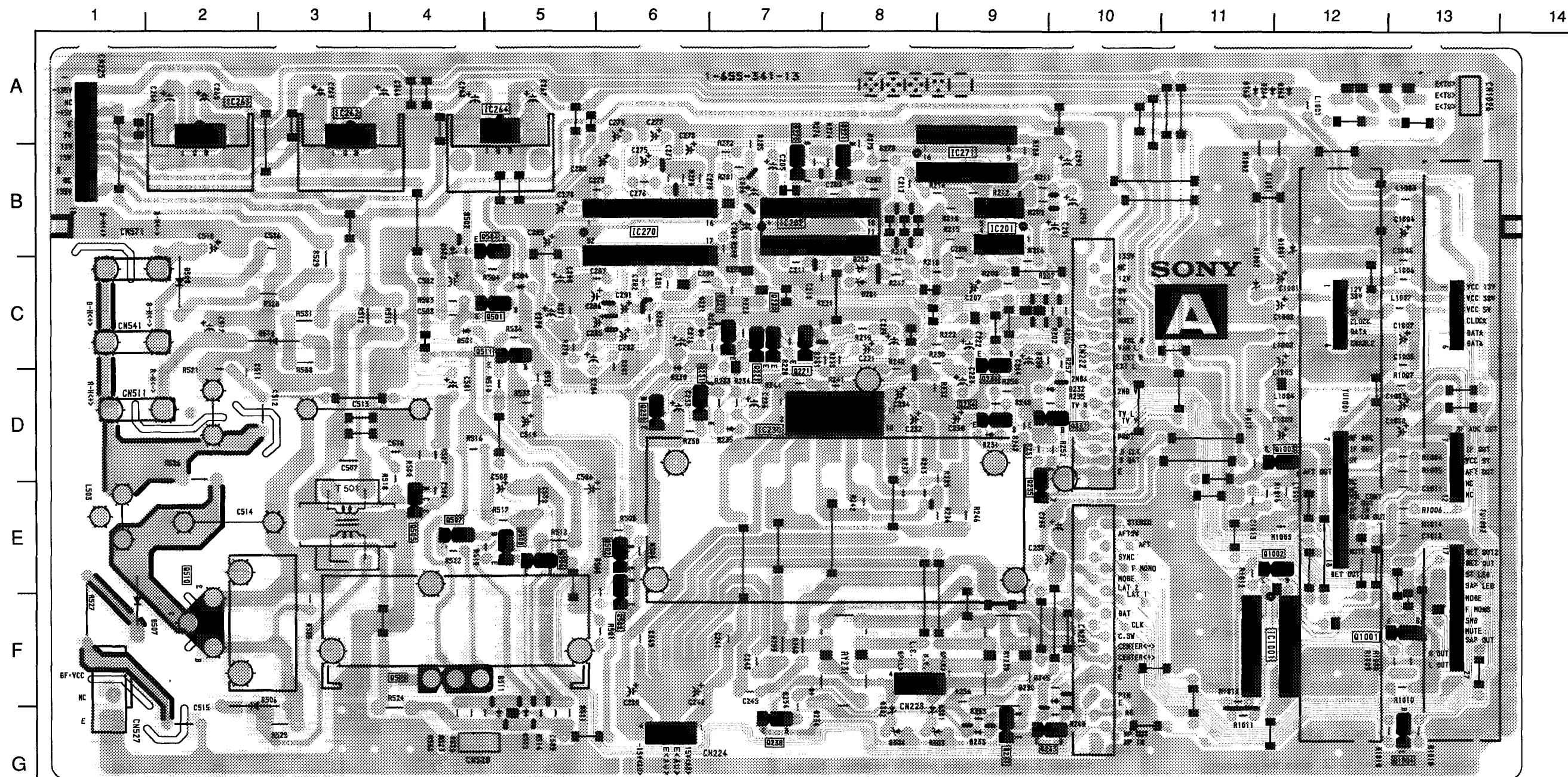
|       |
|-------|
| V-OUT |
| E     |
| L-OUT |
| E     |
| R-OUT |
| E     |

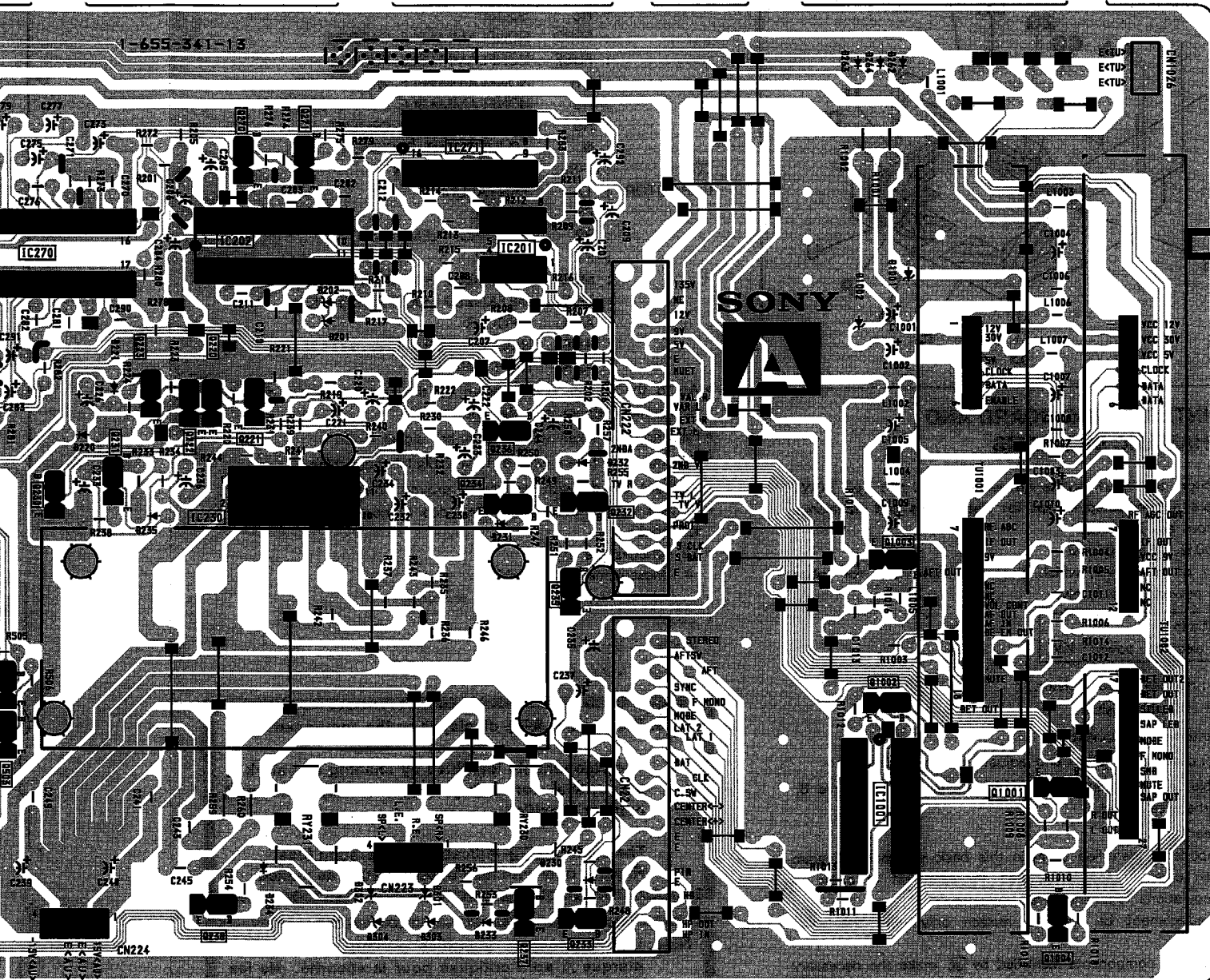
U BOARD  
 147



Schematic diagrams

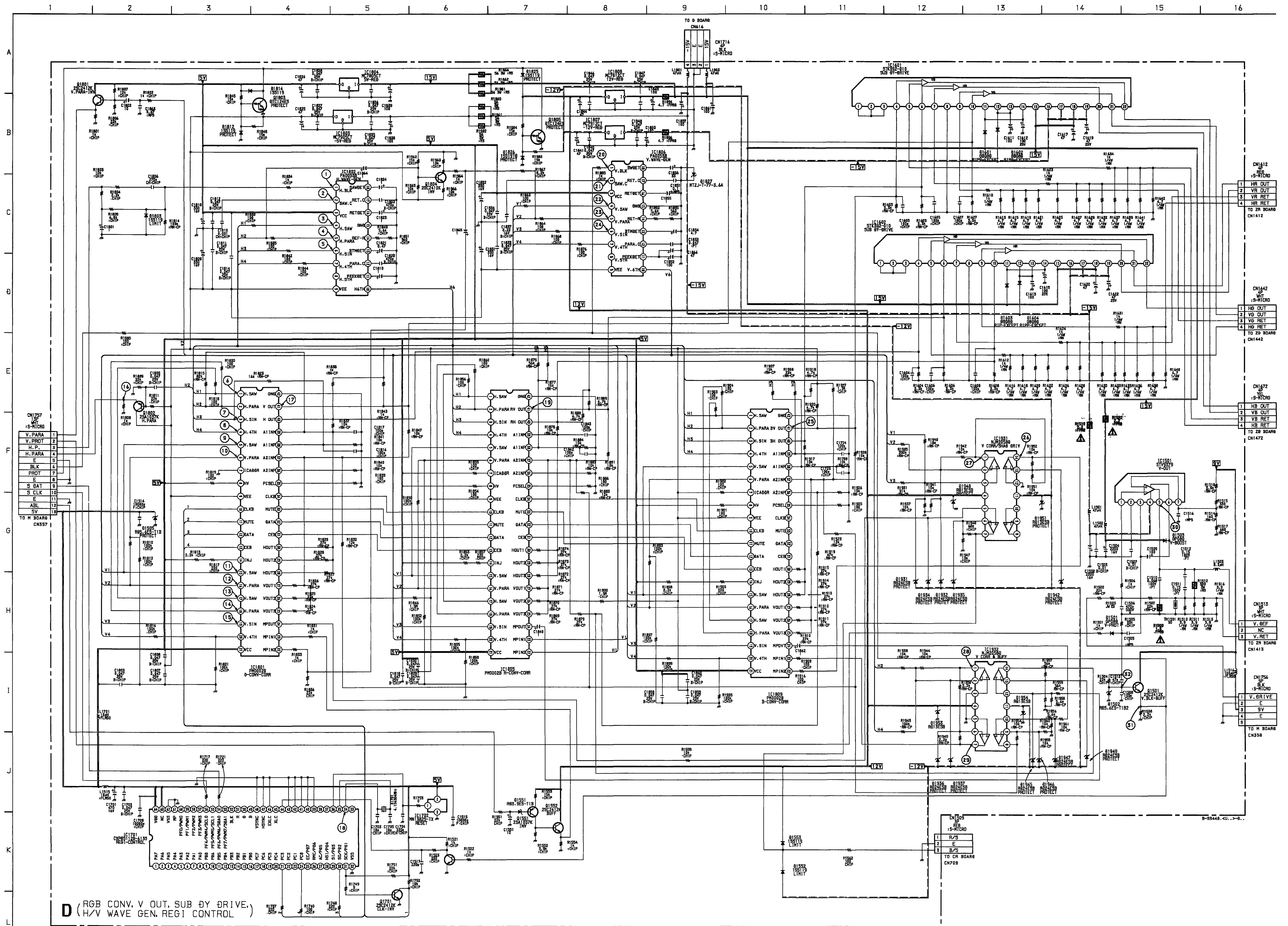










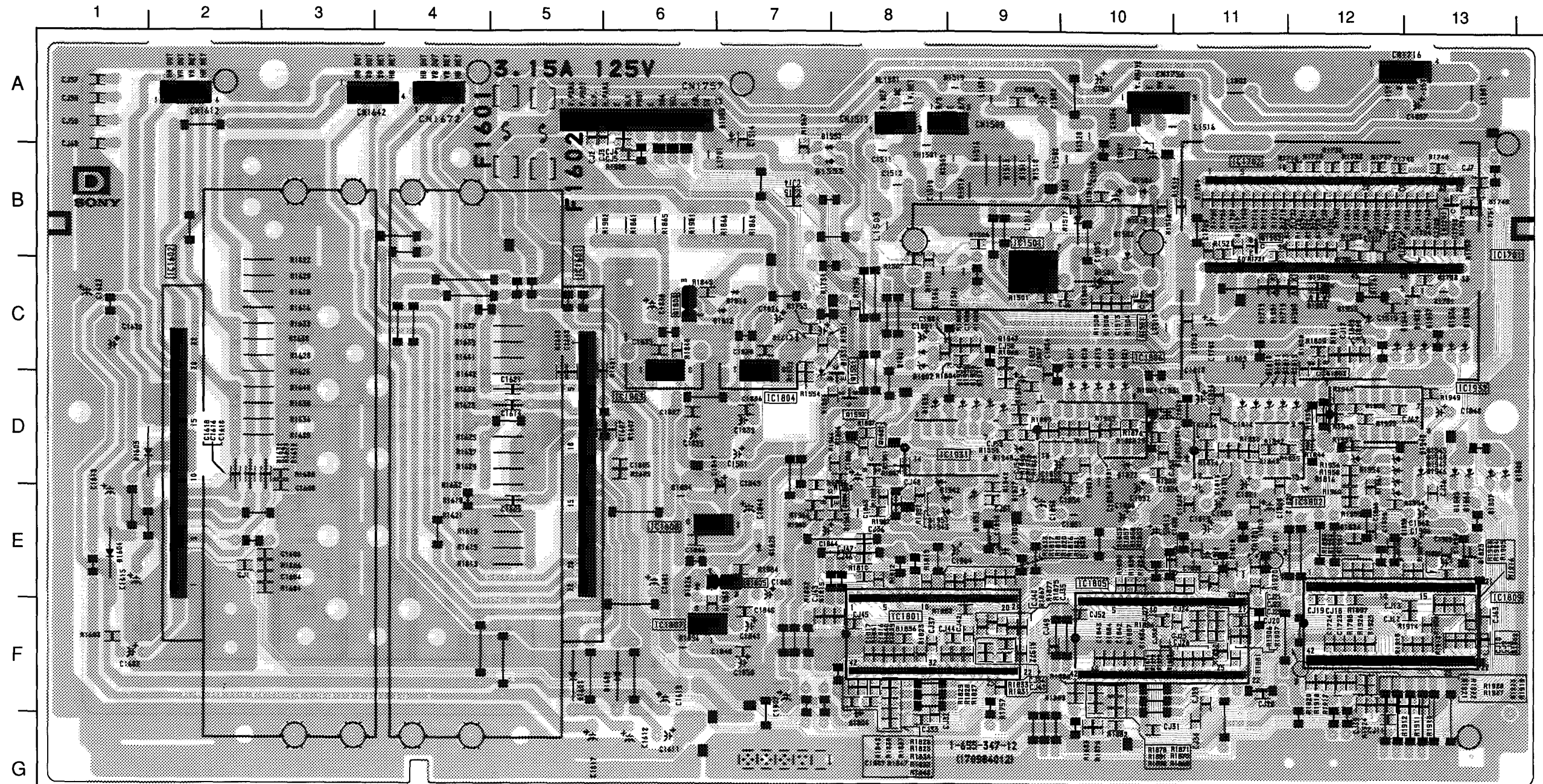


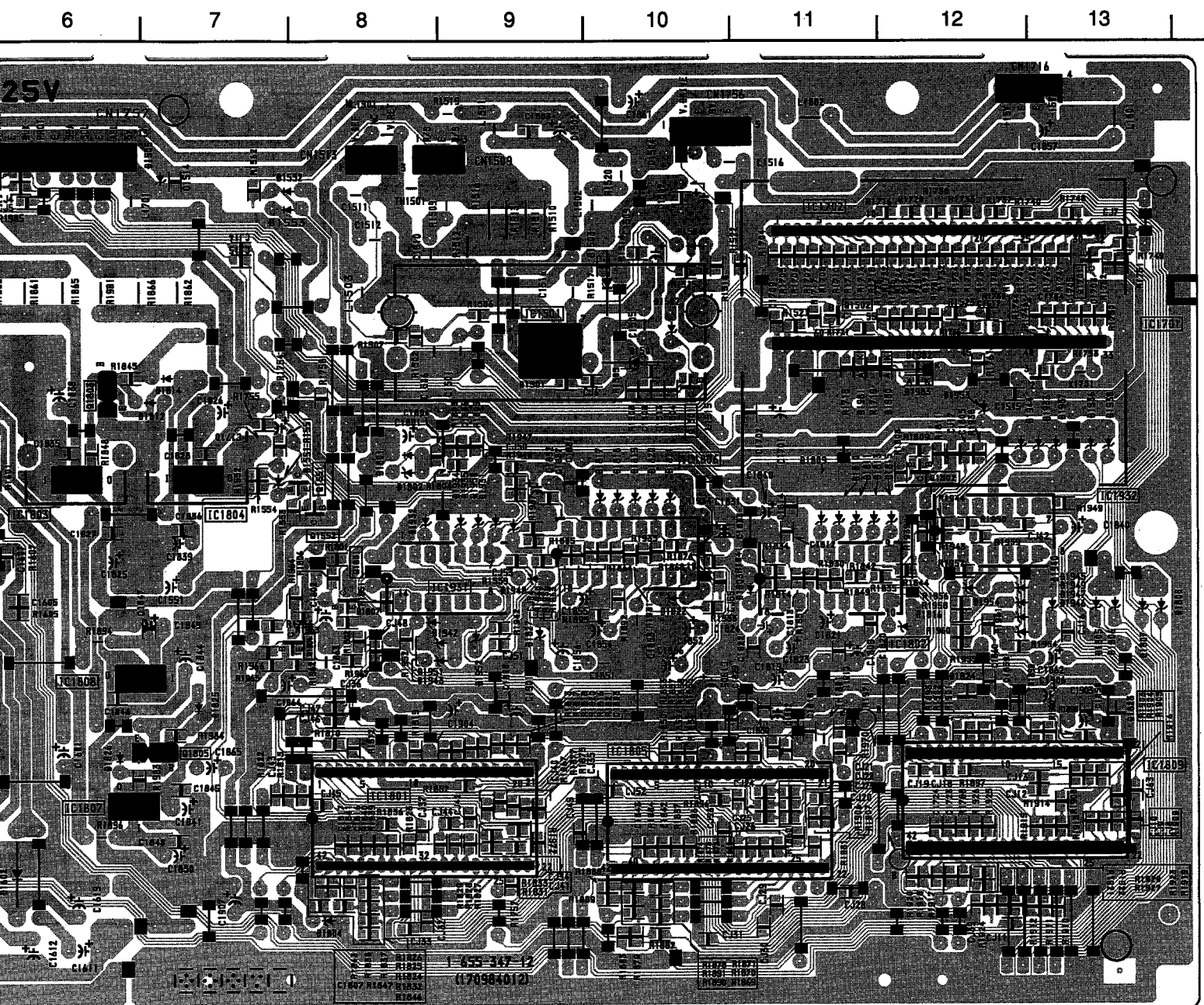
D (RGB CONV, V OUT, SUB BY DRIVE,  
H/V WAVE GEN, REG1 CONTROL)



**D** RGB CONV, V OUT,  
SUB DY DRIVE, H/V WAVE,  
REGI CONTROL

- D BOARD -

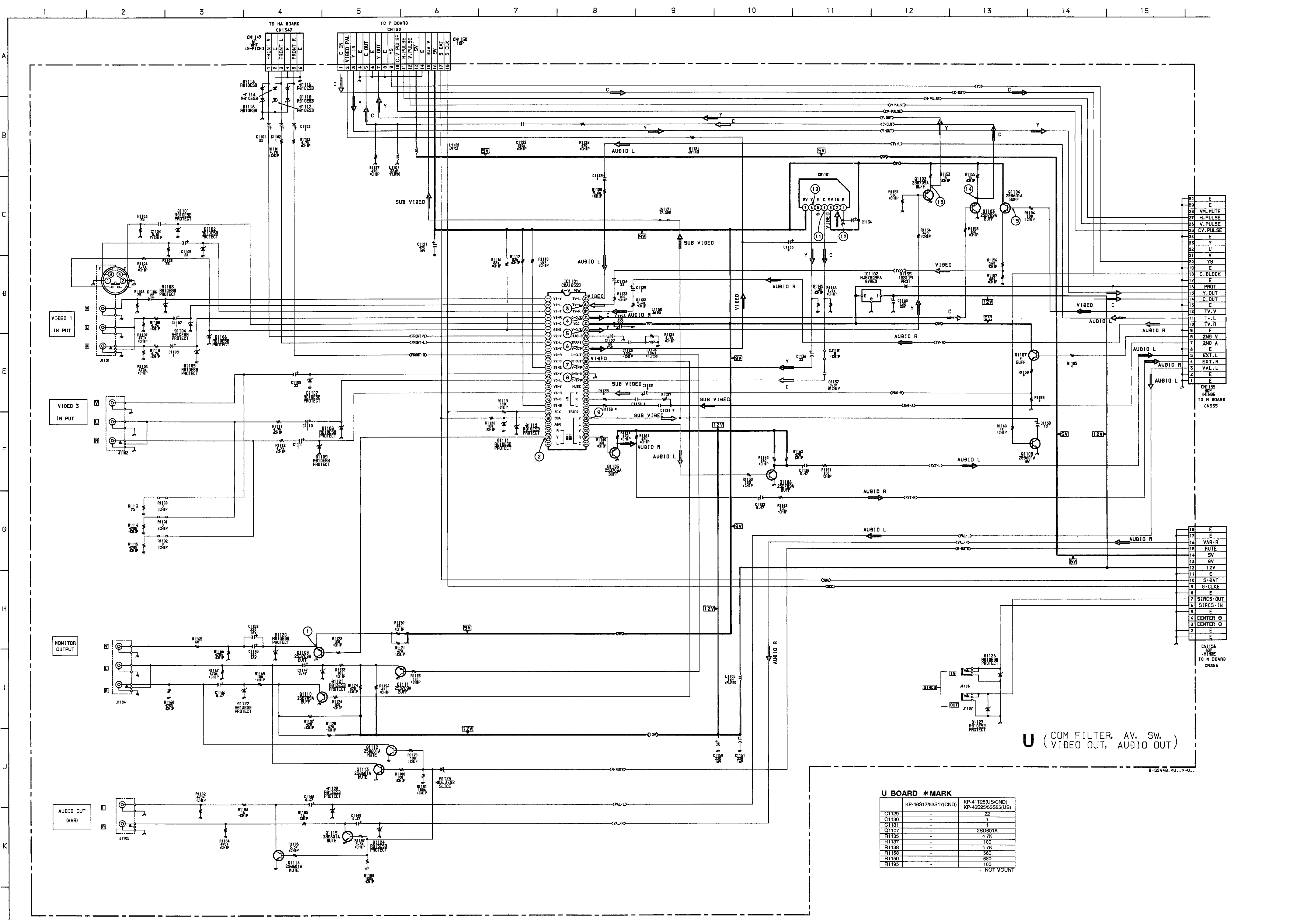






COM FILTER, AV, SW,  
VIDEO IN/OUT, AUDIO IN/OUT

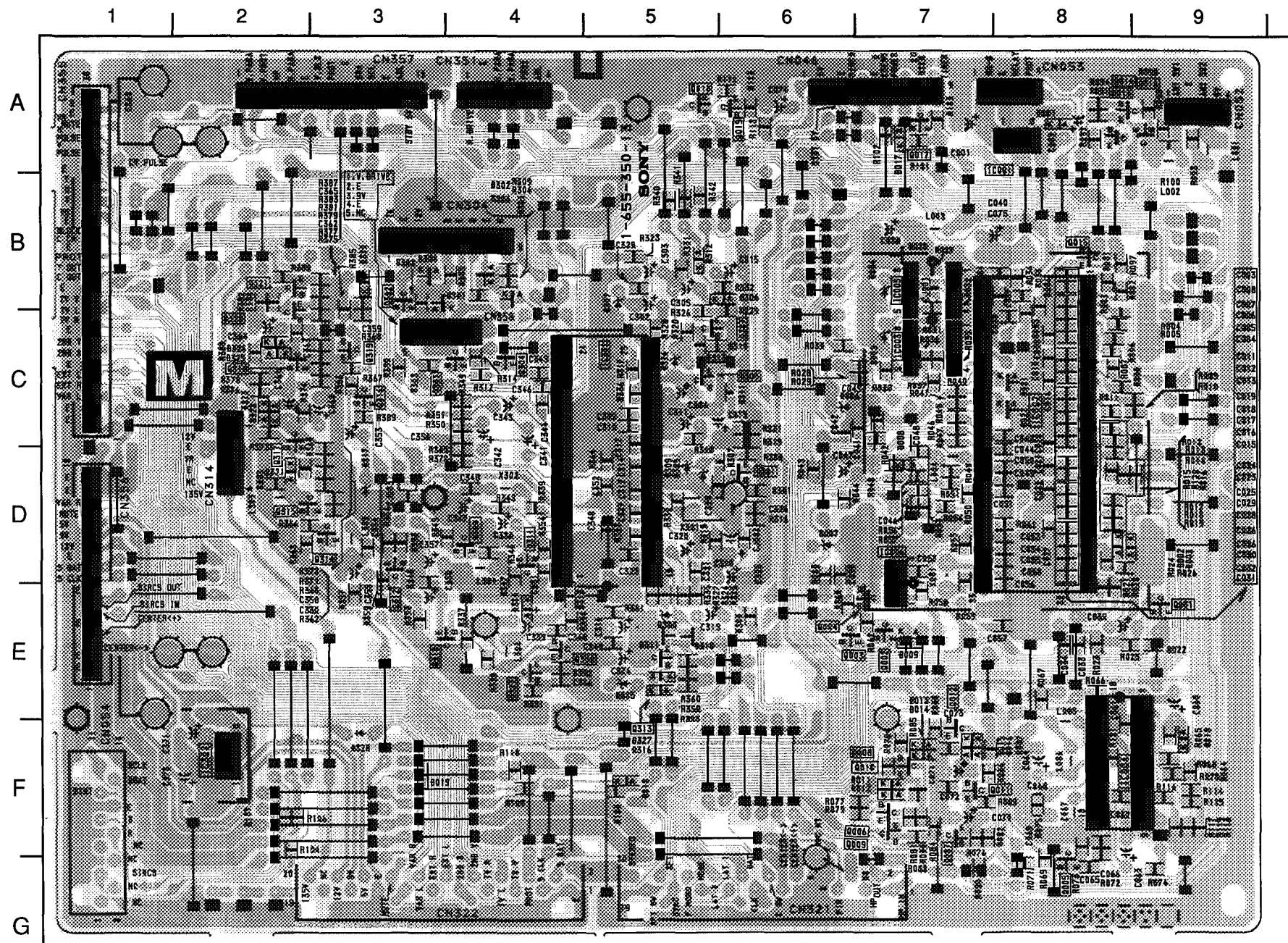
SONY  
655-351-13







- M BOARD -



**M BOARD \* MARK**

|       | KP-41T25(US/CND) | KP-46S17/53S17(CND) | KP-46S25/53S25 |      | KP-41T25(US/CND) | KP-46S17/53S17(CND) | KP-46S25/53S25 |      | KP-41T25(US/CND) | KP-46S17/53S17(CND) | KP-46S25/53S25 |
|-------|------------------|---------------------|----------------|------|------------------|---------------------|----------------|------|------------------|---------------------|----------------|
| C350  | 10               | -                   | -              | Q312 | 2SD601A          | -                   | -              | R369 | 3.3K             | -                   | -              |
| C354  | 22P              | -                   | -              | Q314 | 2SD601A          | -                   | -              | R371 | 1.0K             | -                   | -              |
| C355  | 22               | -                   | -              | Q315 | 2SD601A          | -                   | -              | R372 | 1.2K             | -                   | -              |
| C357  | 47 25V           | -                   | -              | Q316 | 2SD601A          | -                   | -              | R373 | 270              | -                   | -              |
| C358  | 15P              | -                   | -              | Q317 | 2SB709A          | -                   | -              | R374 | 33K              | -                   | -              |
| C359  | 220P             | -                   | -              | Q318 | 2SD601A          | -                   | -              | R375 | 12K              | -                   | -              |
| C360  | 10               | -                   | -              | Q319 | 2SD601A          | -                   | -              | R376 | 68K              | -                   | -              |
| C361  | 10               | -                   | -              | Q320 | 2SD601A          | -                   | -              | R377 | 560              | -                   | -              |
| C362  | 22P              | -                   | -              | Q321 | 2SD601A          | -                   | -              | R378 | 2.7K             | -                   | -              |
| C363  | 0.001            | -                   | -              | R348 | 1.0K             | -                   | -              | R379 | 27K              | -                   | -              |
| C364  | 10               | -                   | -              | R352 | 2.2K             | -                   | -              | R380 | 100K             | -                   | -              |
| C365  | 22P              | -                   | -              | R353 | 6.8K             | -                   | -              | R381 | 8.2K             | -                   | -              |
| CN314 | 6P               | -                   | -              | R356 | 180              | -                   | -              | R382 | 33K              | -                   | -              |
| D320  | MA110            | -                   | -              | R357 | 180              | -                   | -              | R383 | 560              | -                   | -              |
| D321  | MA110            | -                   | -              | R359 | 330              | -                   | -              | R384 | 1.5K             | -                   | -              |
| D322  | MA110            | -                   | -              | R362 | 270              | -                   | -              | R385 | 33K              | -                   | -              |
| D323  | MA110            | -                   | -              | R363 | 1.0K             | -                   | -              | R386 | 1.0M             | -                   | -              |
| D324  | MA110            | -                   | -              | R364 | 100              | -                   | -              | R387 | 1.0K             | -                   | -              |
| D325  | MA110            | -                   | -              | R366 | 1.5K             | -                   | -              | R388 | 100              | -                   | -              |
| IC002 | CXP85332A-046S   | CXP85340A-06S       | CXP85332A-046S | R367 | 2.2K             | -                   | -              | R389 | 220              | -                   | -              |
| Q310  | 2SD601A          | -                   | -              | R368 | 100              | -                   | -              | R393 | 1K               | -                   | -              |

- NOT MOUNT

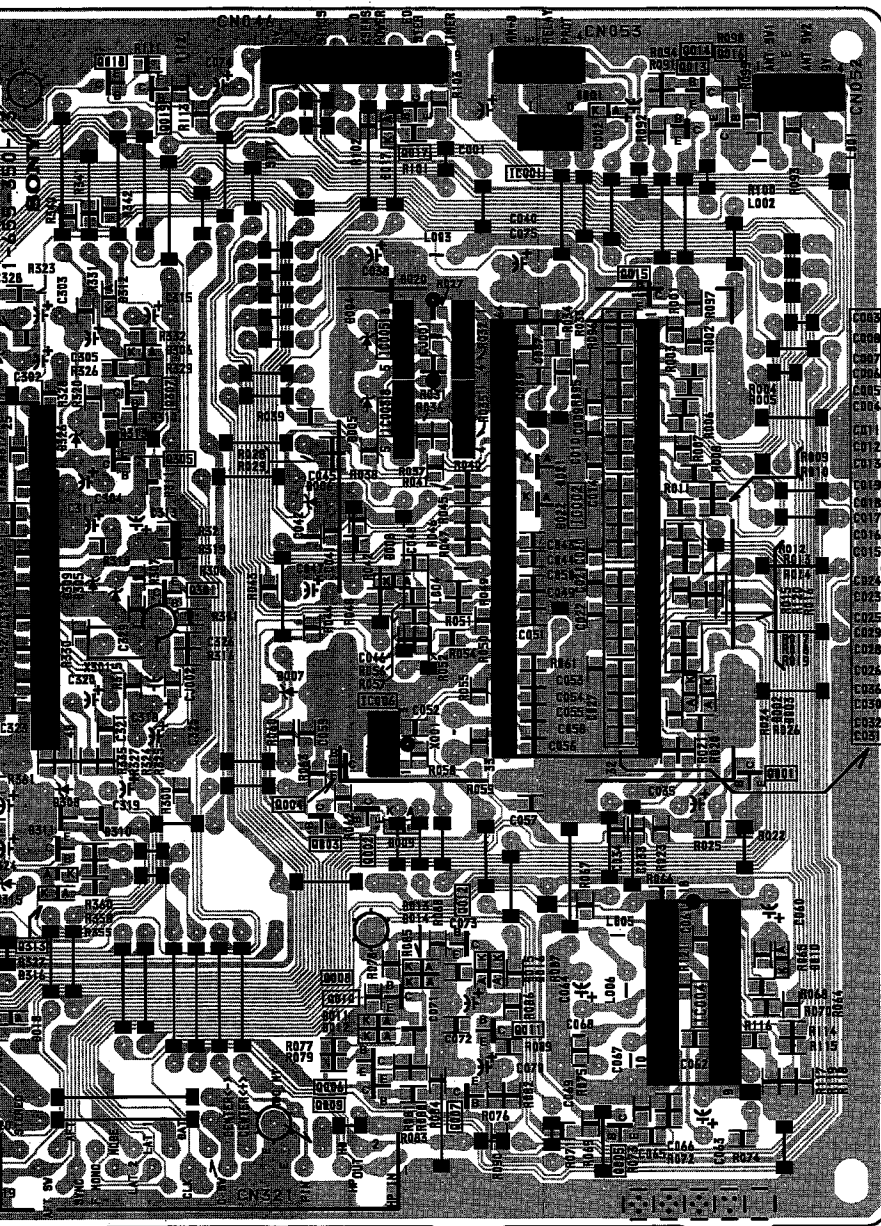
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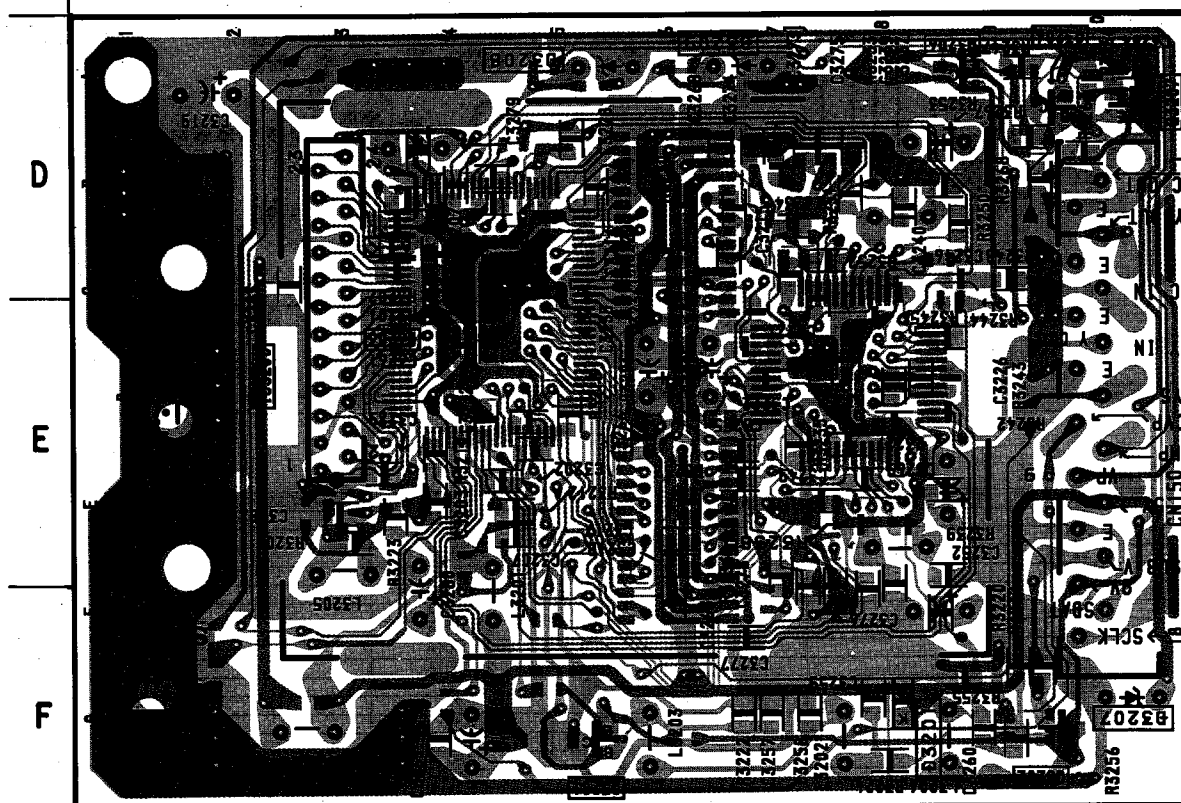
| CND) | KP-46S17/53S17(CND) | KP-46S25/53S25 | KP-41T25(US/CND) | KP-46S17/53S17(CND) | KP-46S25/53S25 |
|------|---------------------|----------------|------------------|---------------------|----------------|
|      |                     | R369           | 3.3K             |                     |                |
|      |                     | R371           | 1.0K             |                     |                |
|      |                     | R372           | 1.2K             |                     |                |
|      |                     | R373           | 270              |                     |                |
|      |                     | R374           | 33K              |                     |                |
|      |                     | R375           | 12K              |                     |                |
|      |                     | R376           | 68K              |                     |                |
|      |                     | R377           | 560              |                     |                |
|      |                     | R378           | 2.7K             |                     |                |
|      |                     | R379           | 27K              |                     |                |
|      |                     | R380           | 100K             |                     |                |
|      |                     | R381           | 8.2K             |                     |                |
|      |                     | R382           | 33K              |                     |                |
|      |                     | R383           | 560              |                     |                |
|      |                     | R384           | 1.5K             |                     |                |
|      |                     | R385           | 33K              |                     |                |
|      |                     | R386           | 1.0M             |                     |                |
|      |                     | R387           | 1.0K             |                     |                |
|      |                     | R388           | 100              |                     |                |
|      |                     | R389           | 220              |                     |                |
|      |                     | R393           | 1K               |                     |                |

-- NOT MOUNT

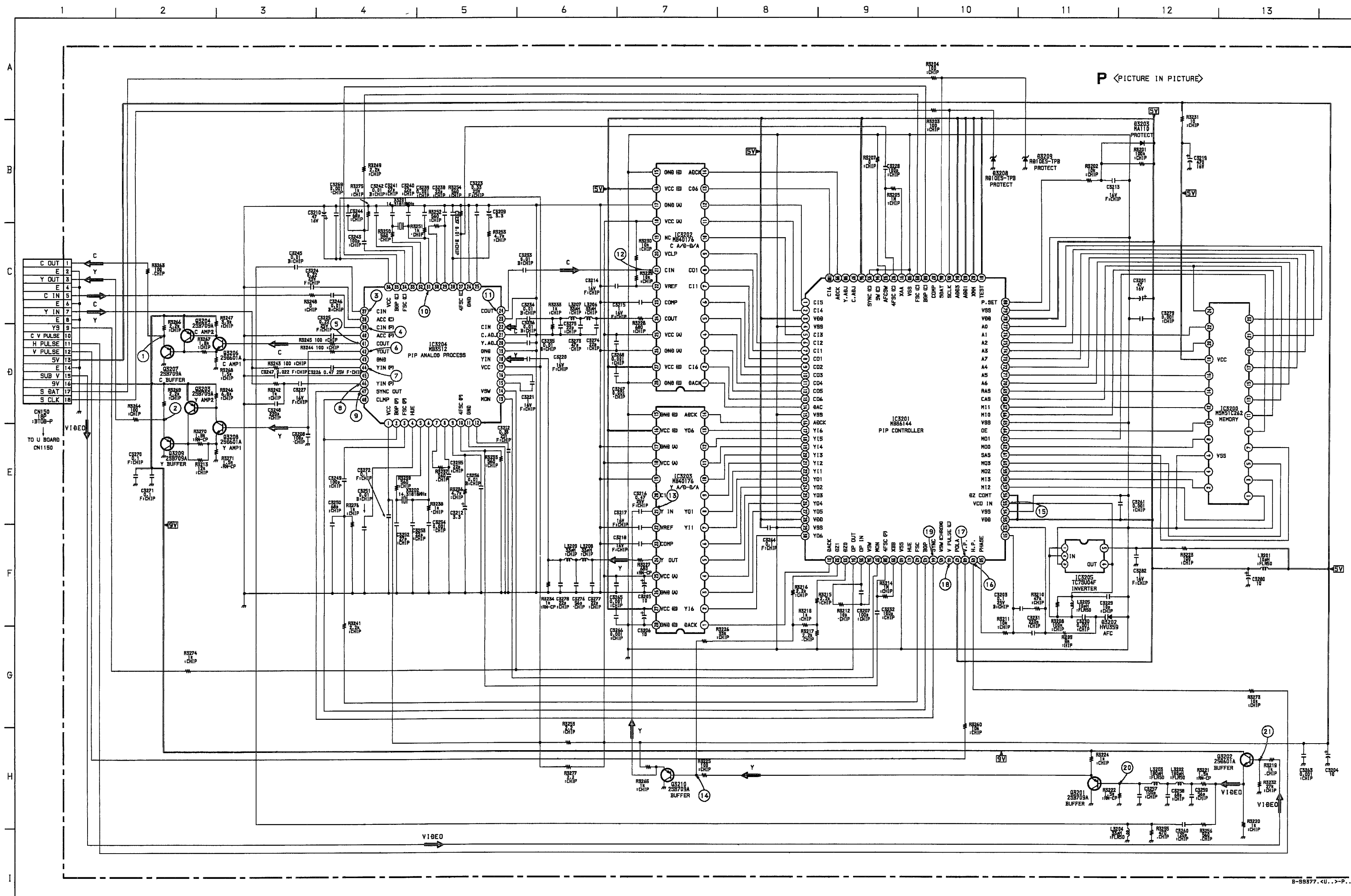




**- P BOARD -**

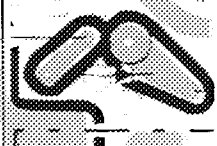
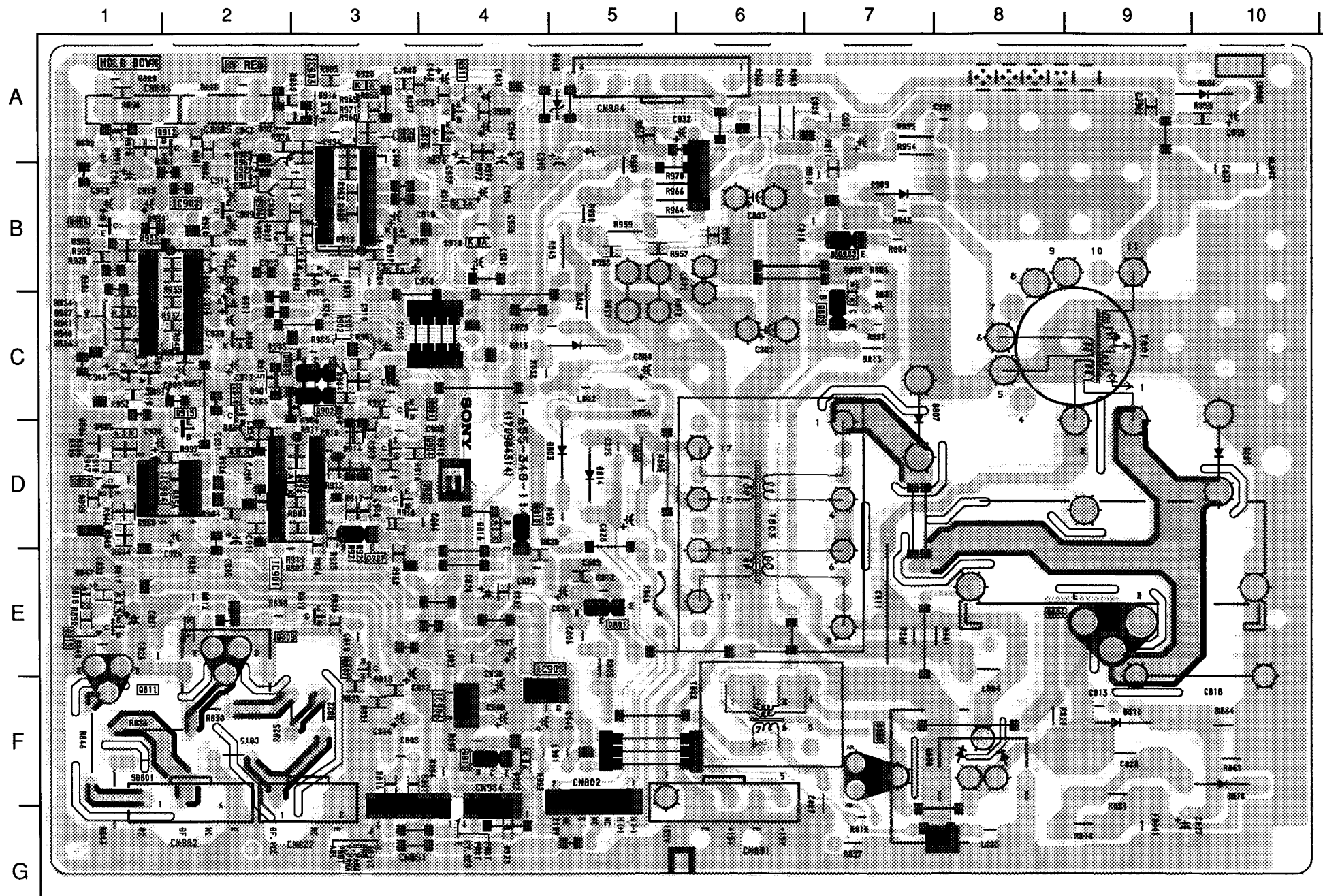






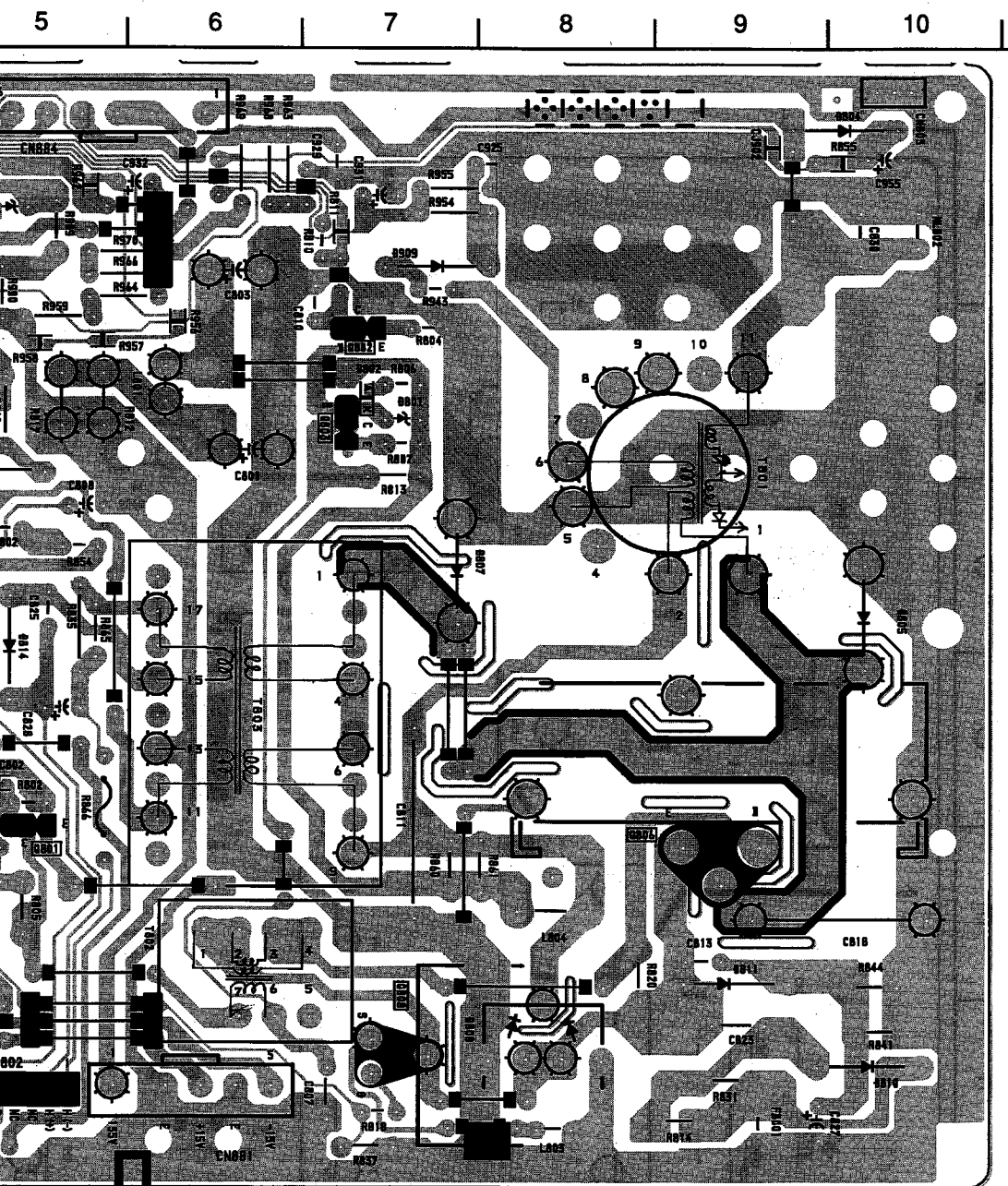


- E BOARD -



**NOTE:**

The circuit indicated as left contains high voltage of over 600 Vp-p. Care must be paid to prevent an electric shock in inspection or repairing.



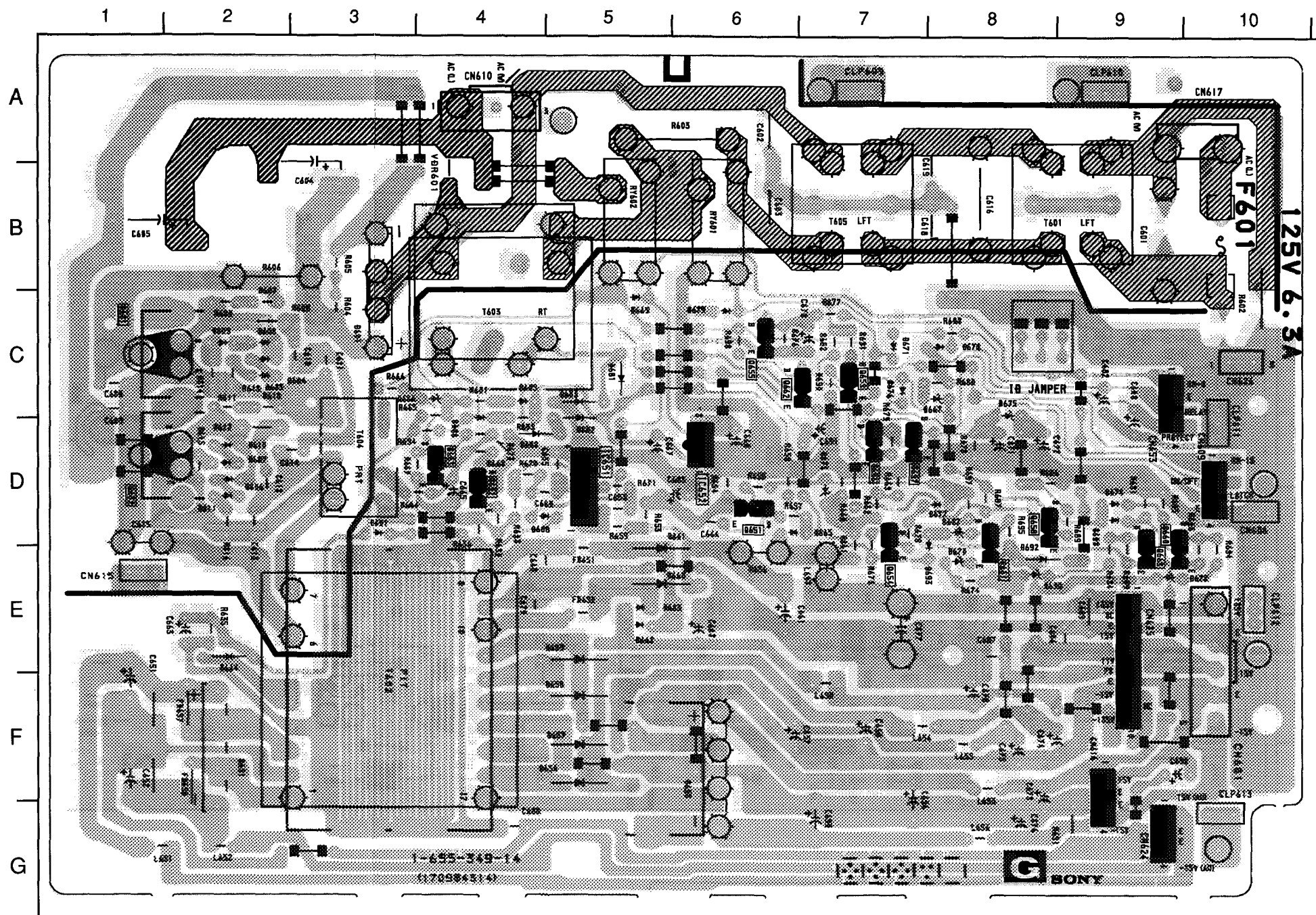
age of over  
ic shock in



**G**

[ POWER SUPPLY ]

- G BOARD -



3

4

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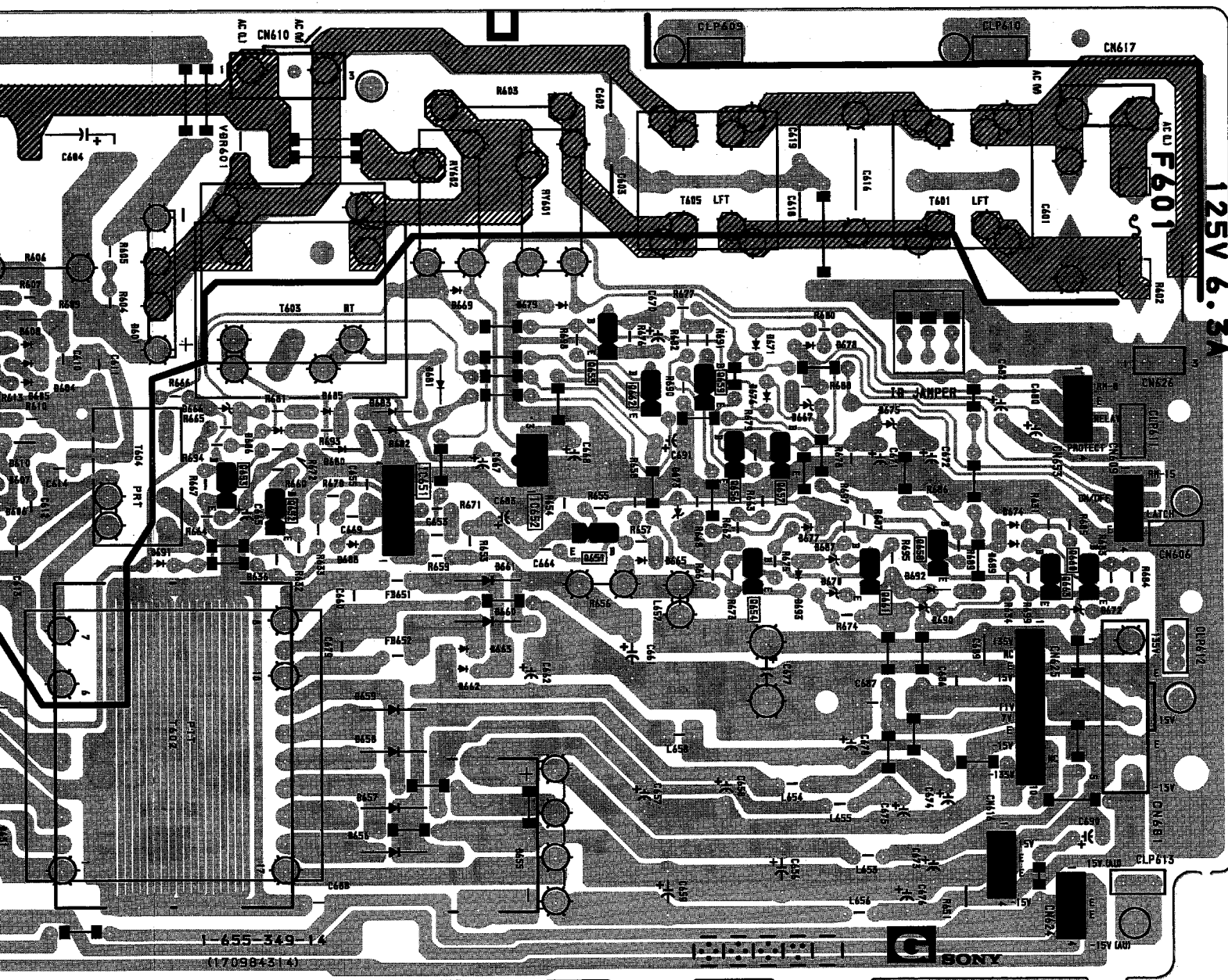
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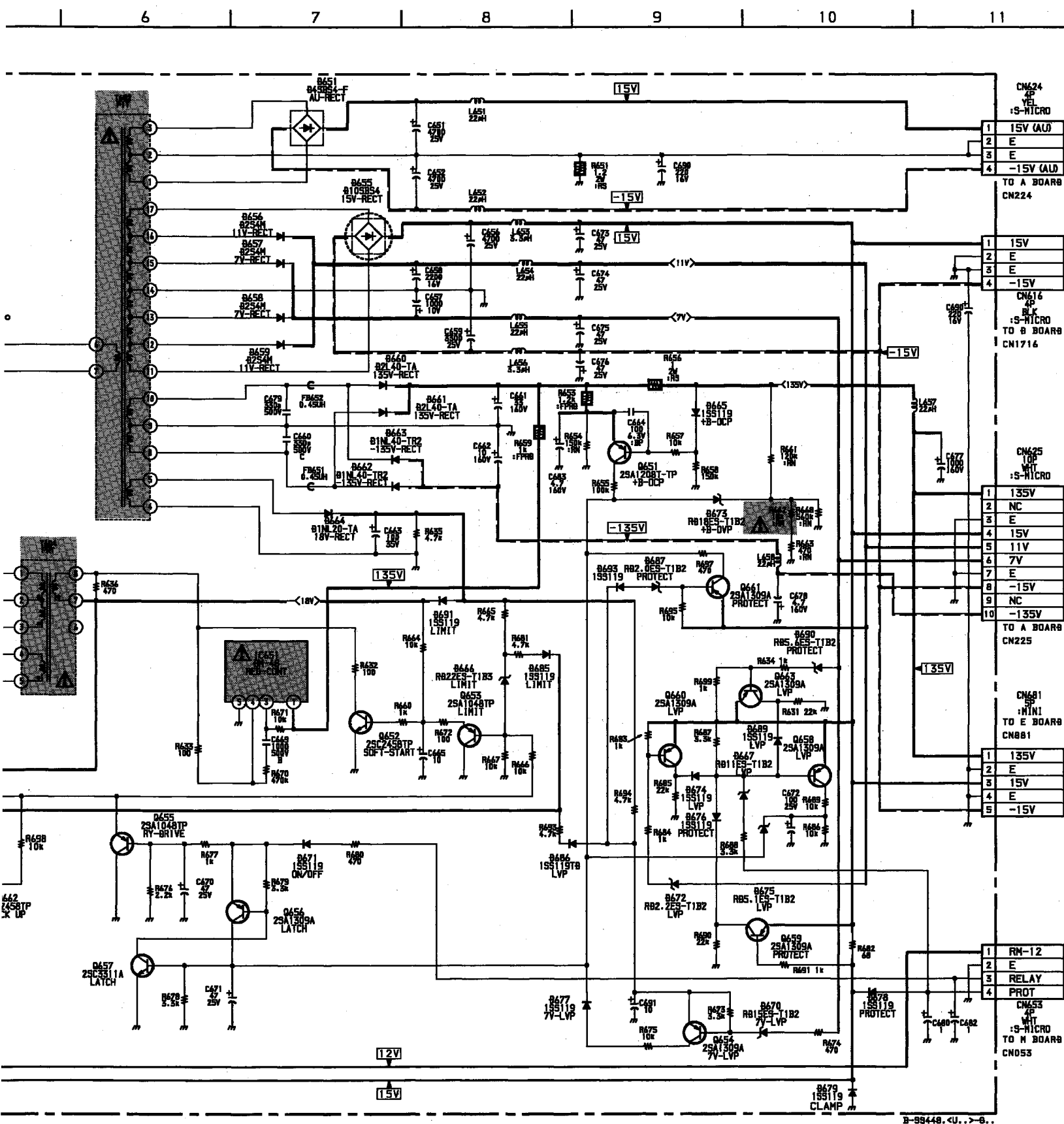
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10



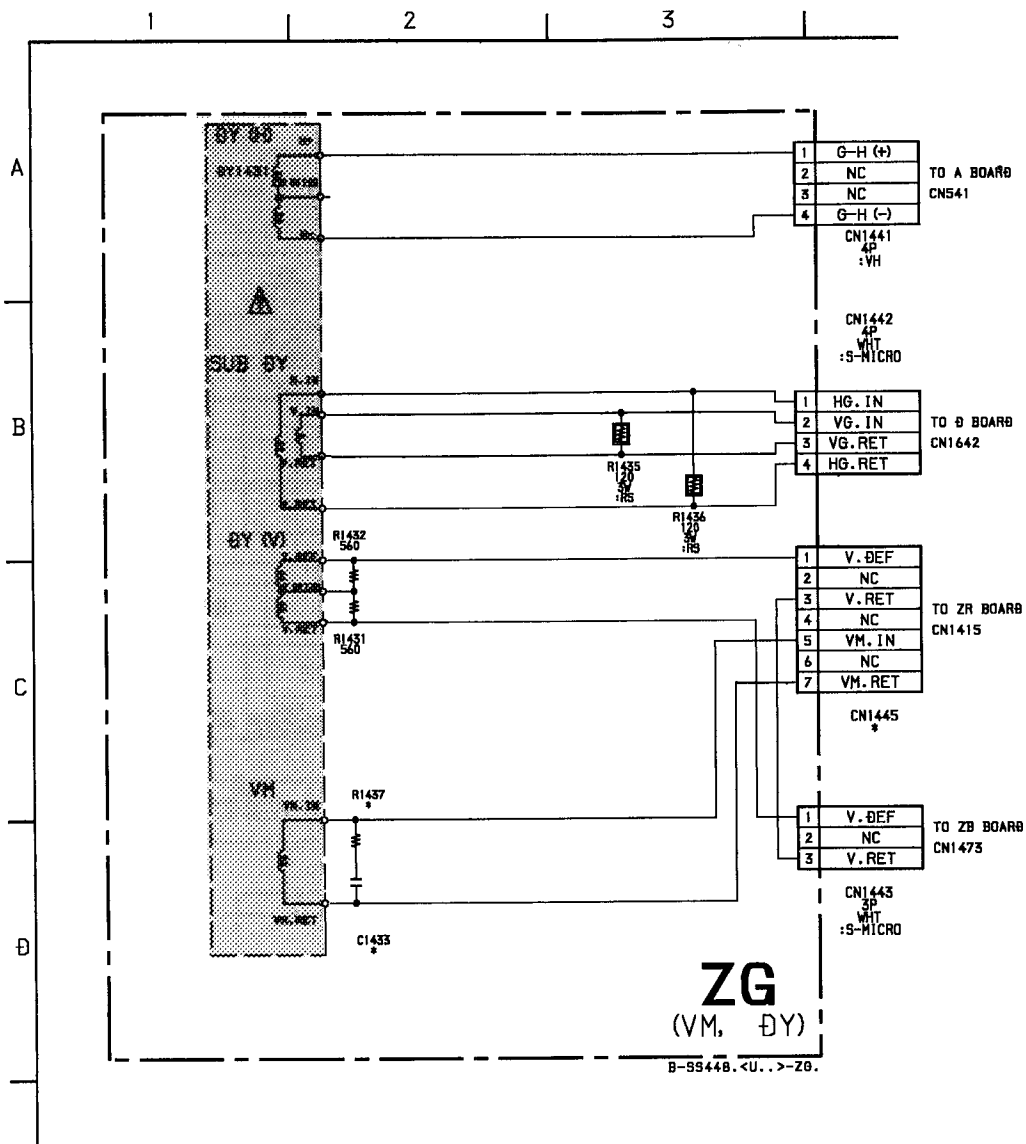


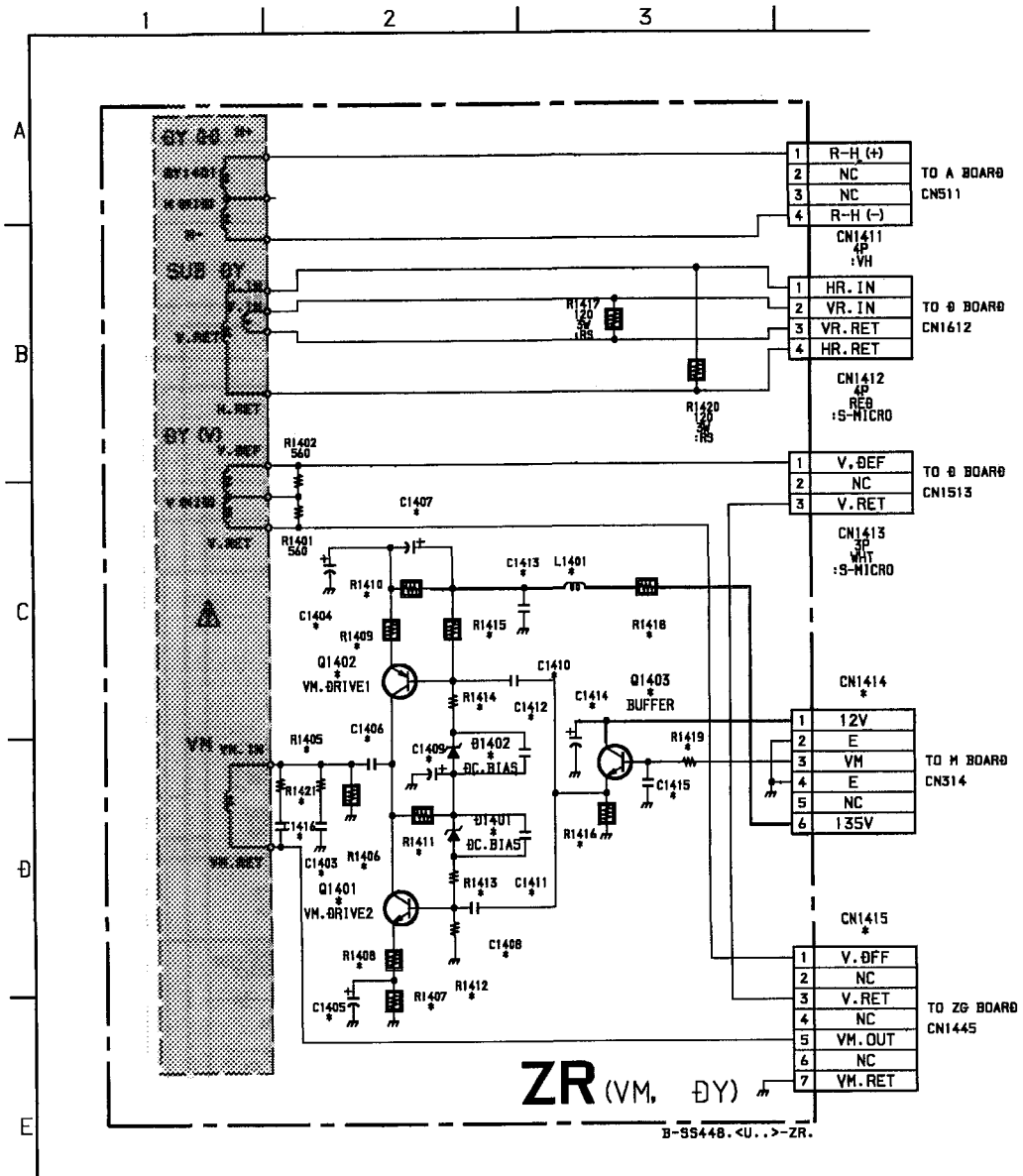


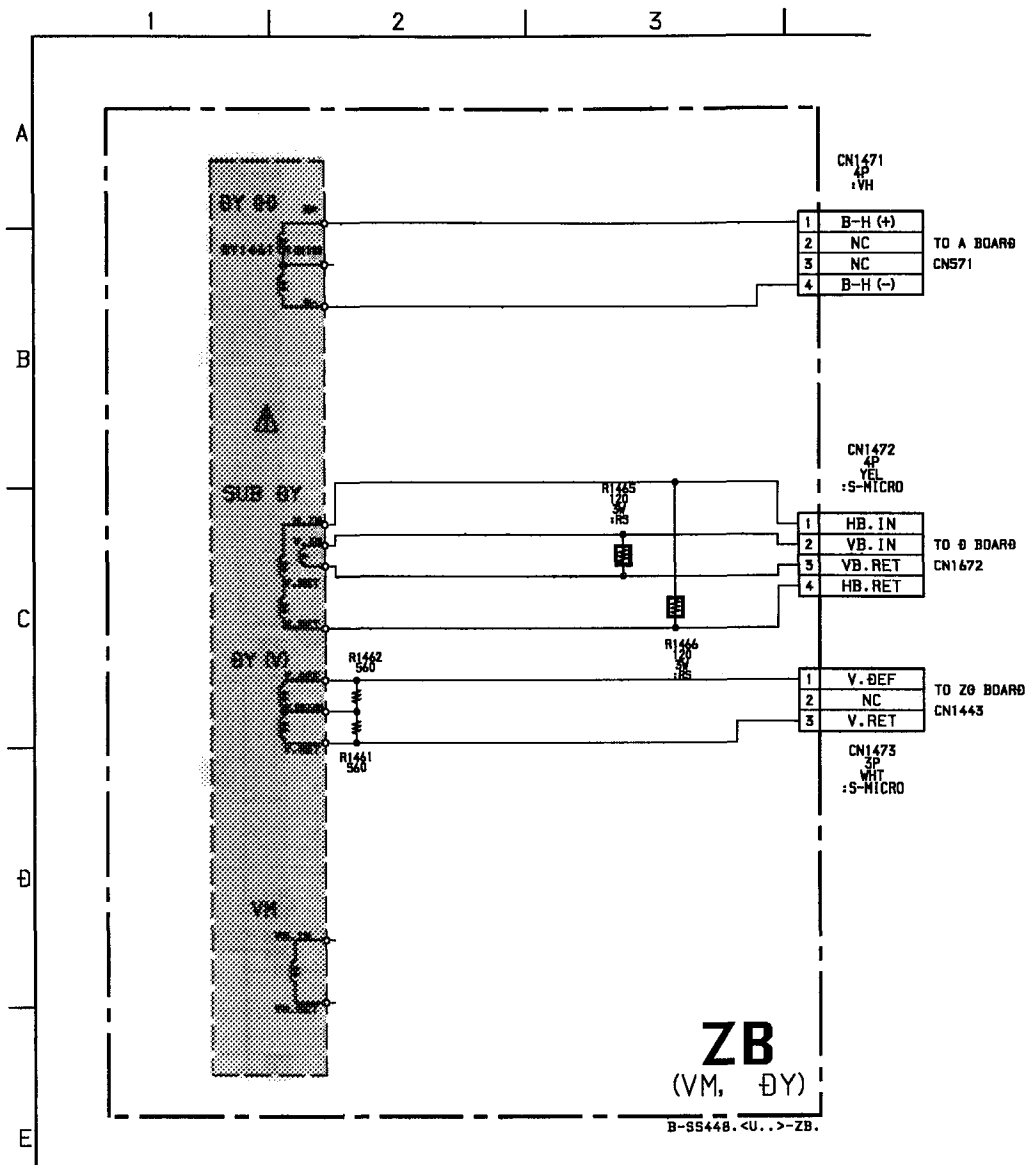


,

Schematic diagrams







**ZB**

[VM, DY]

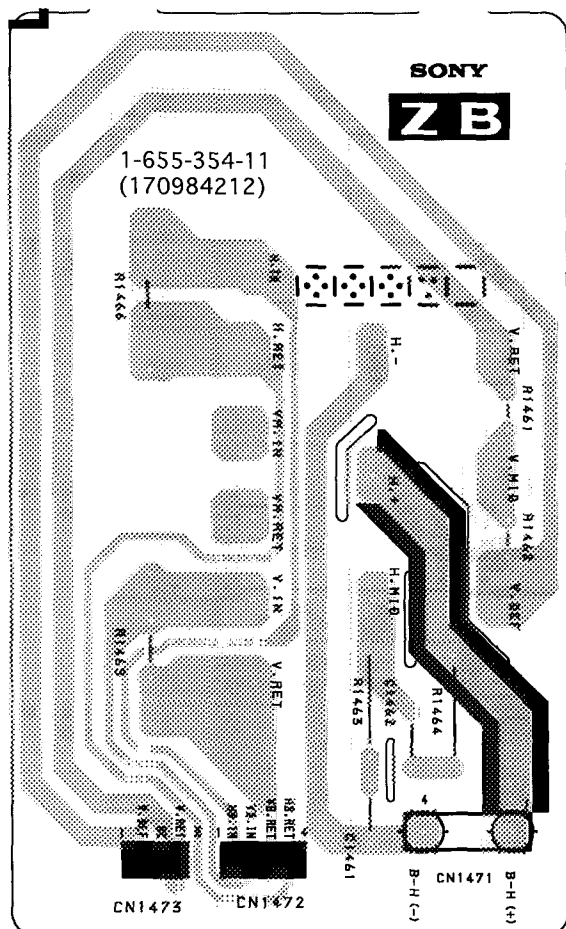
**ZG**

[VM, DY]

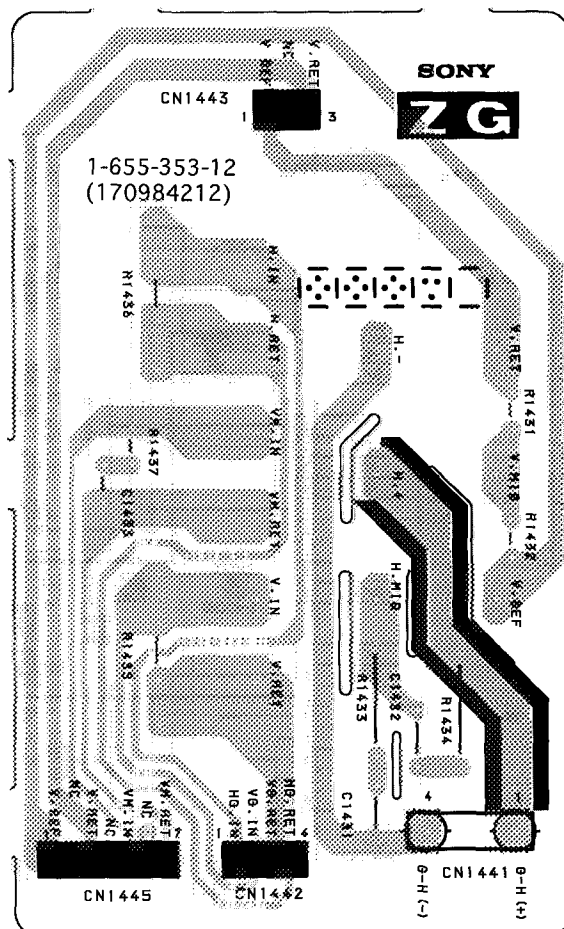
**ZR**

[VM, DY]

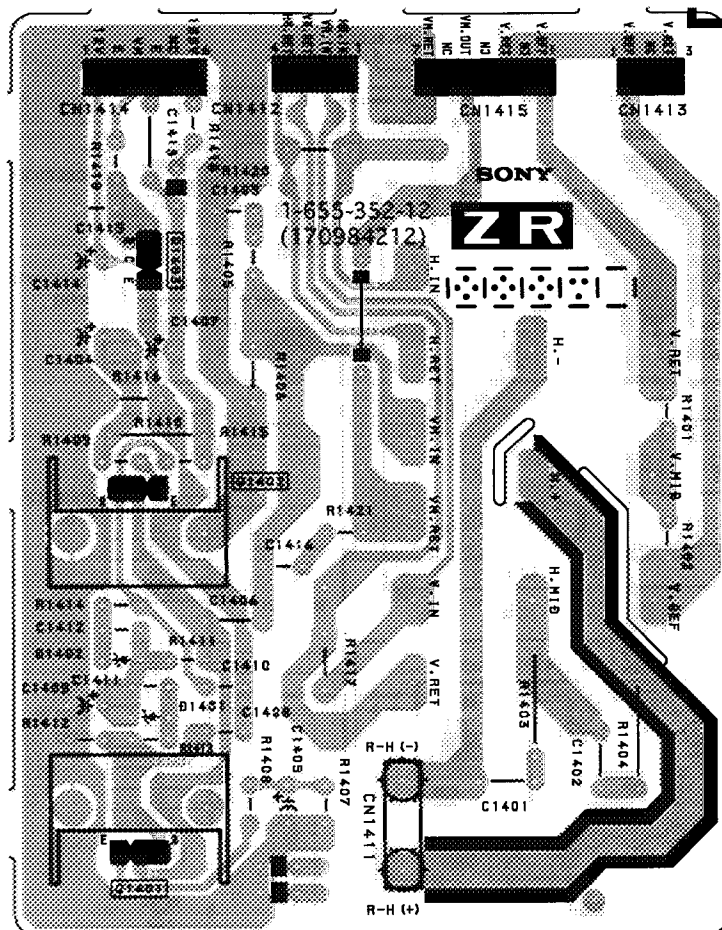
## - ZB BOARD -

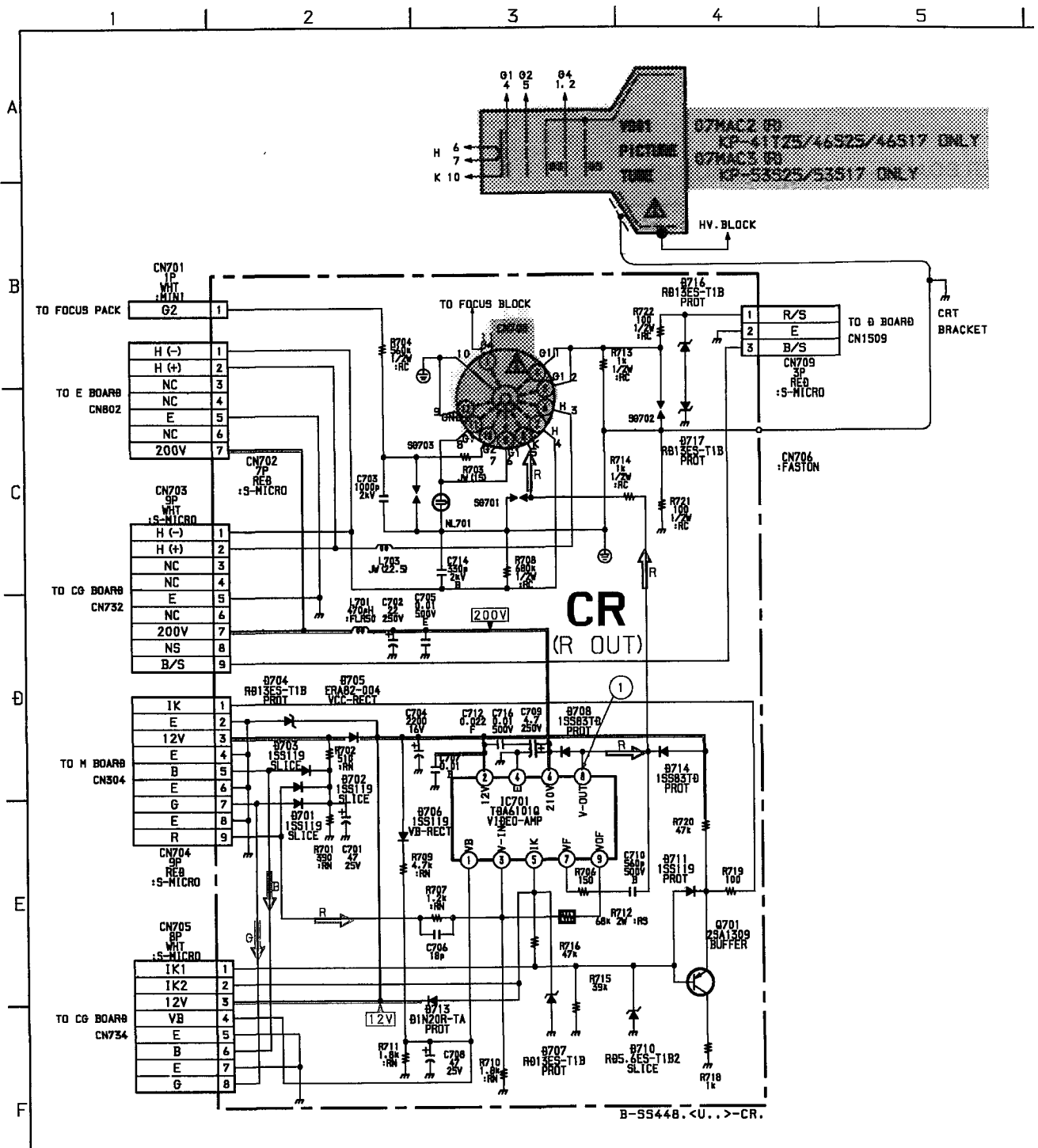


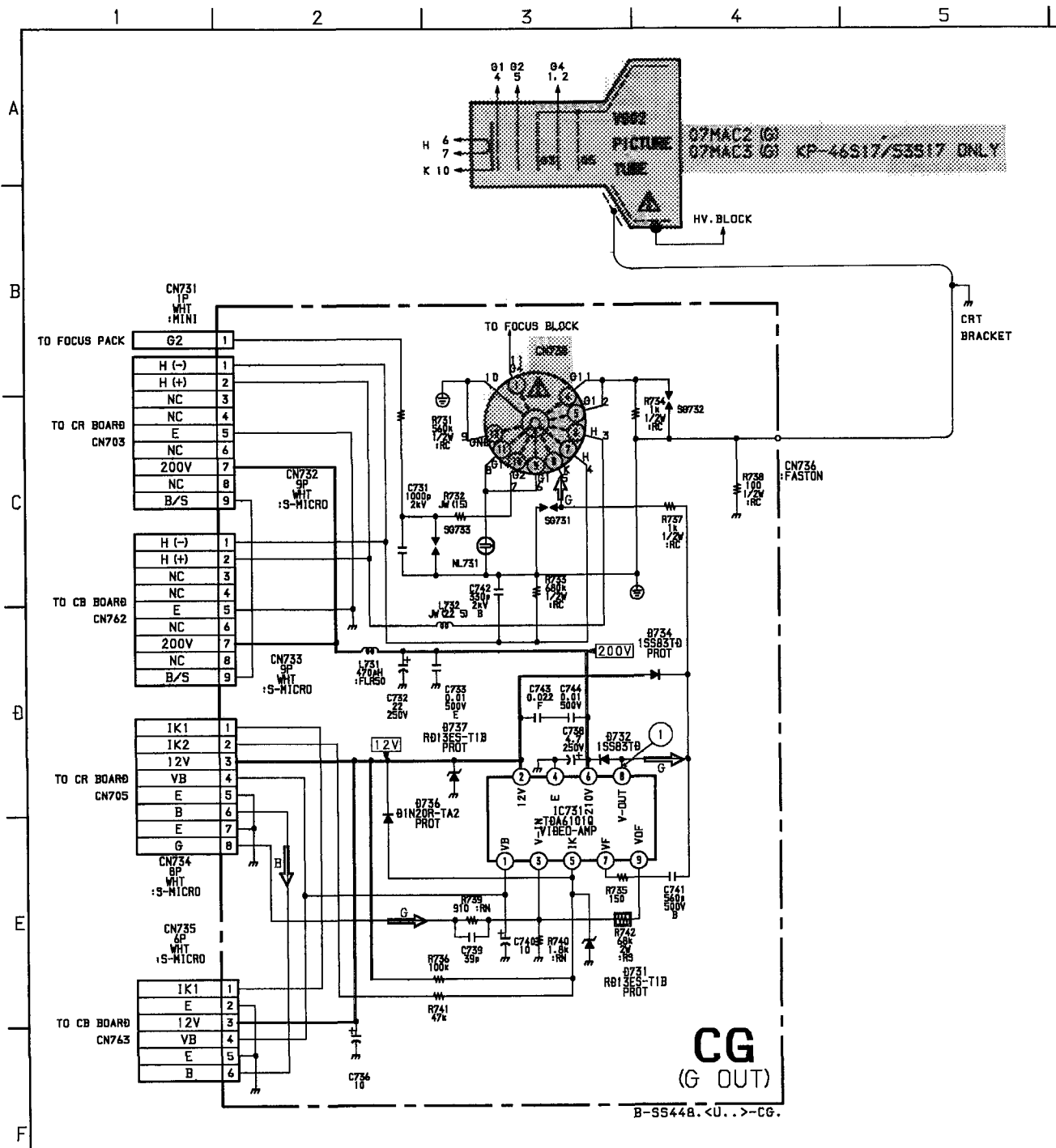
## - ZG BOARD -



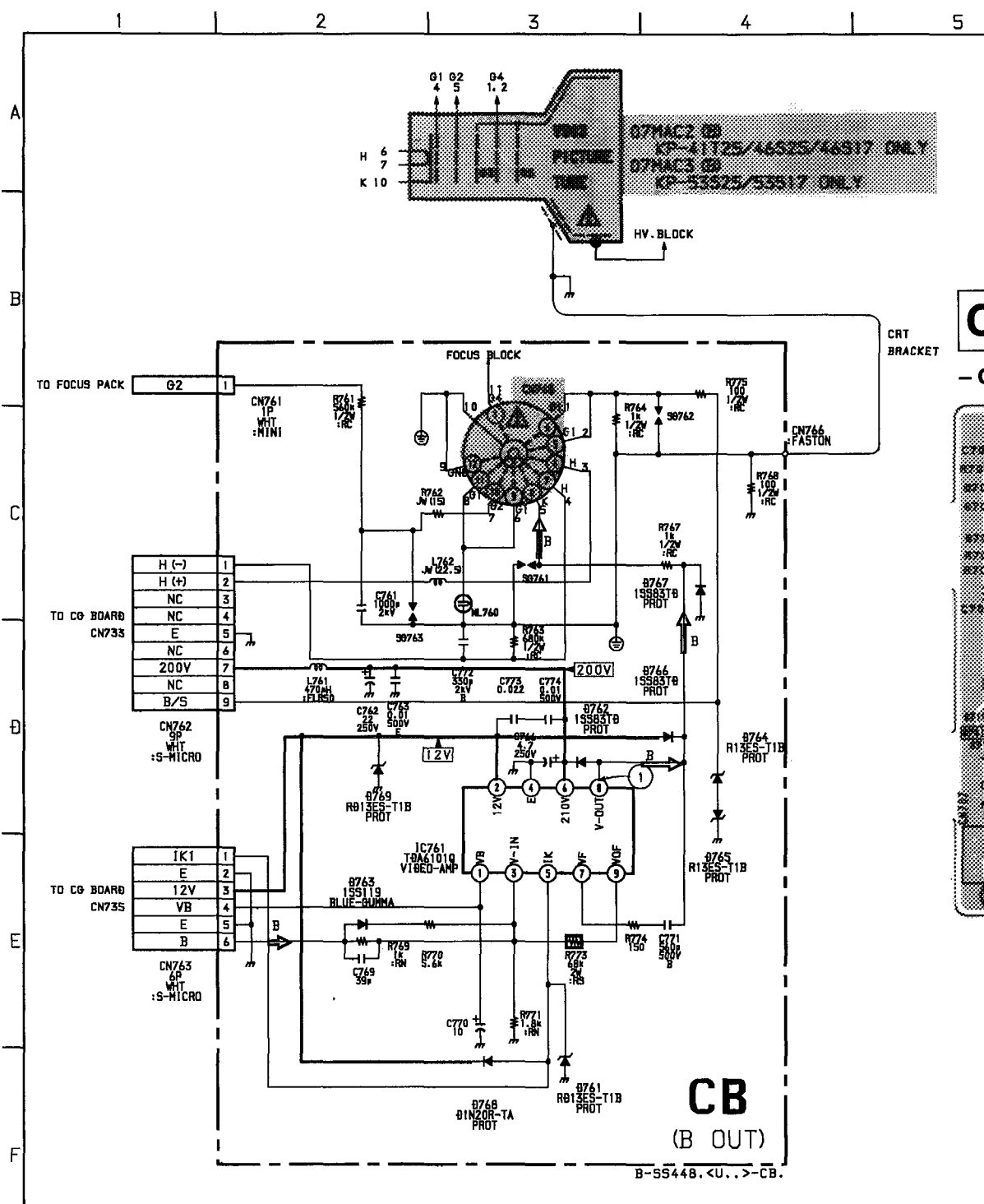
**- ZR BOARD -**



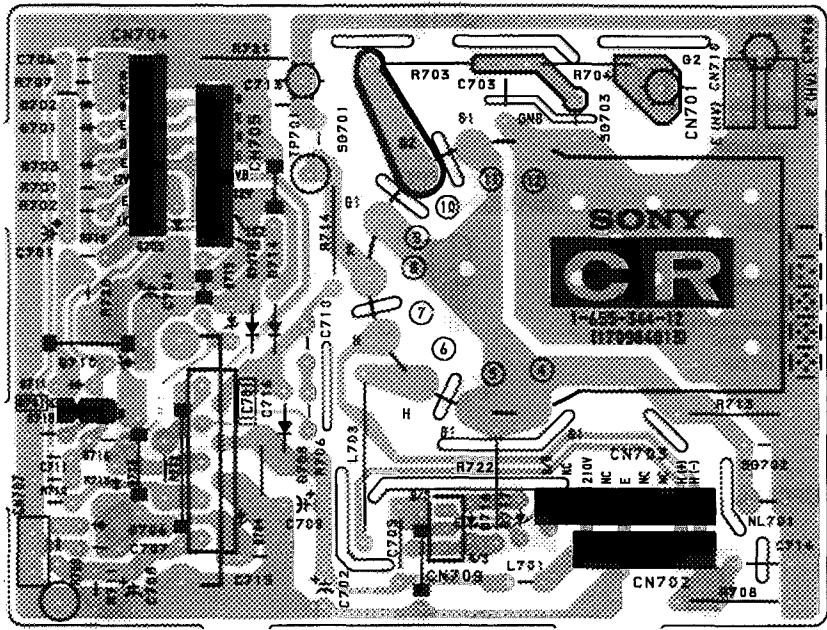




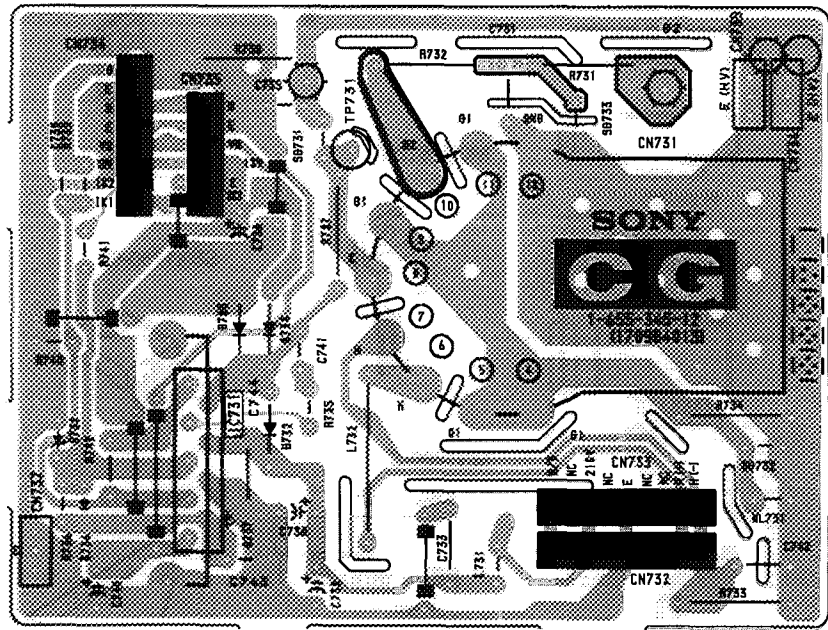




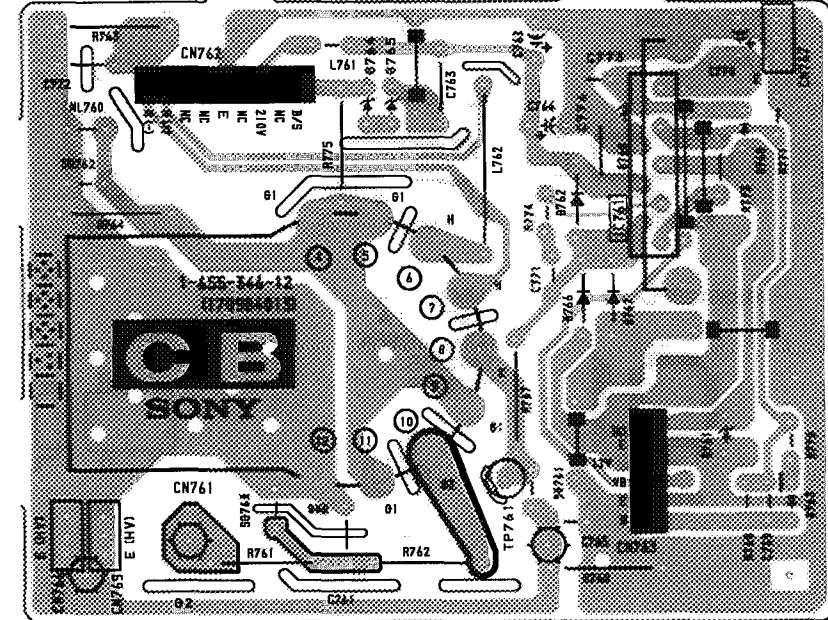
**CR** [R OUT]  
- CR BOARD -



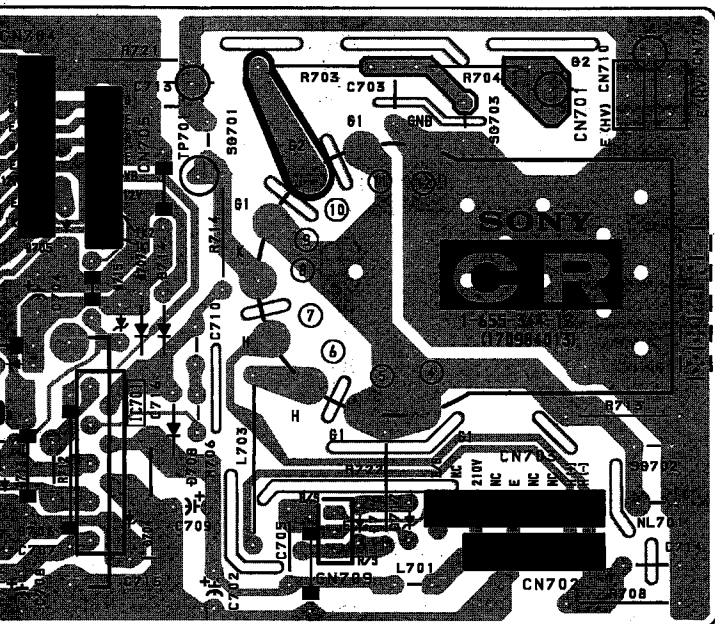
**CG** [G OUT]  
- CG BOARD -



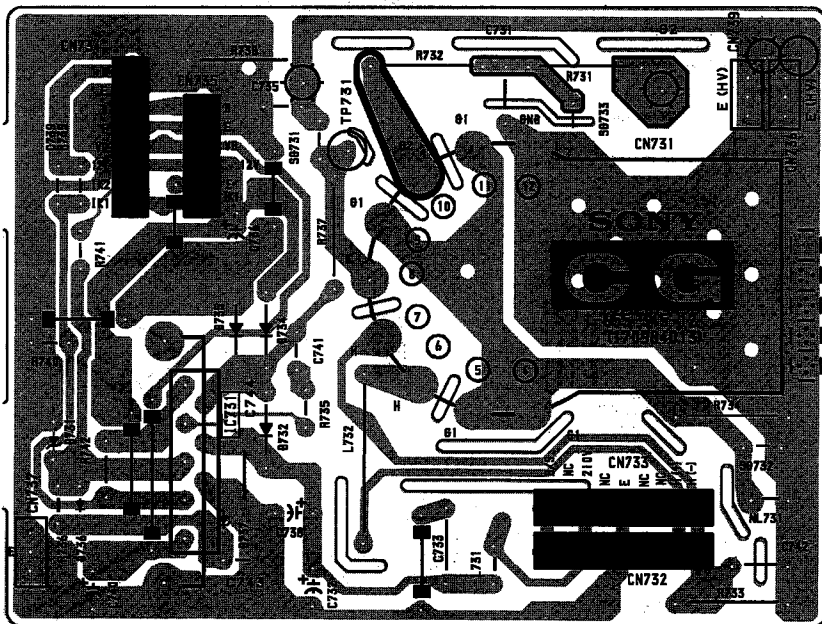
**CB** [B OUT]  
- CB BOARD -



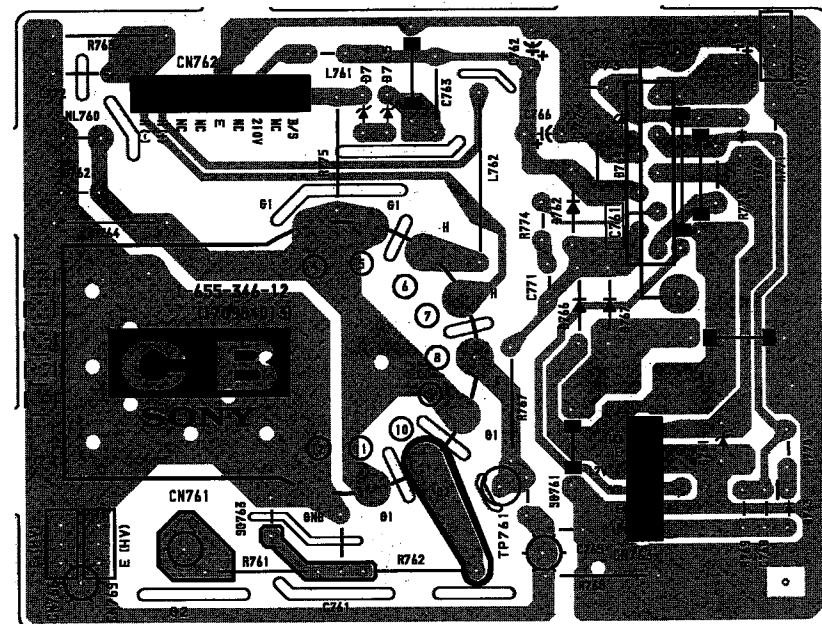
[R OUT]  
- BOARD -



**CG** [G OUT]  
- CG BOARD -

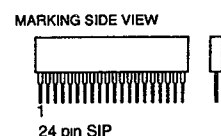


**CB** [B OUT]  
- CB BOARD -



# 4-3. SEMICONDUCTORS

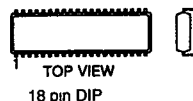
CAT51C262-ZS  
MSM51C262-ZS



MB40176PF-G-BND-EF



PA0053B  
Z8622812PSC



TDA6101Q



DTC323TS  
2SA1175-HFE  
2SC2785-HFE

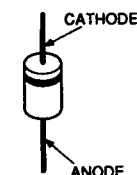


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2SC4793  
2SD2348(LBSONY-2)

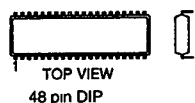


D1N20R  
ERA85-009  
ERC91-02TP11  
RD10ESB2  
RD11ESB2  
RD13ESB2  
RD15ESB2  
RD18ESB2  
RD2.0ESB2  
RD2.2ESB2  
RD22ESB3  
RD24ESB  
RD3.3ESB2  
RD3.9ESB2  
RD33ESB1  
RD39ESB2  
RD5.1ESB1  
RD5.1ESB2  
RD5.6ESB1  
RD5.6ESB2  
RD8.2ESB2  
RD9.1ESL  
11ES2  
1SS119-25

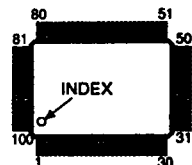
EGP-20G



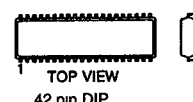
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CXA1855S



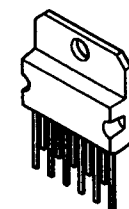
MB86144BPF-G-BND



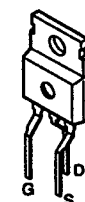
PM0002B



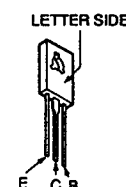
TDA7265



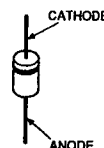
IRFI640LF



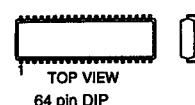
2SB649A-C  
2SC2688-LK



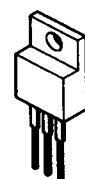
ERC06-15S  
ERC91-02  
RU-1C



CXP85112B-SX377  
CXP85332A-SX377



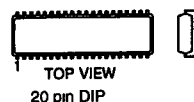
MCT7812CT



PQ05RF1  
PQ09RA1



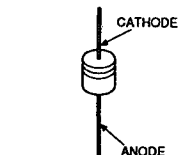
TDA8424



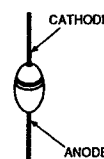
2SA1013-R-TPE6  
2SA1208-S



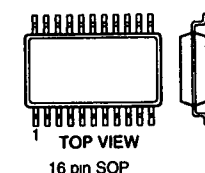
2SC2878-AB



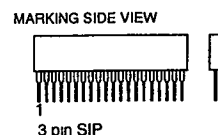
ERC38-06  
V09G



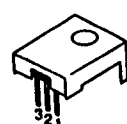
HD14053BFP



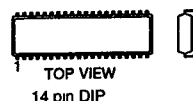
MN1280-S



SBX1780-51



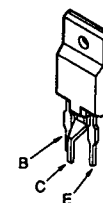
UPC339C



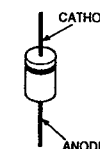
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2SC1623-L5L6  
2SD601A-Q



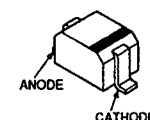
2SC4632LS-CB7  
2SD1877-CA



D1NL20  
D1NL40-TR2  
D2L40-TA  
EL1Z  
ERD28-08S  
GP08D  
RGP02-20EL-6394  
1SS83



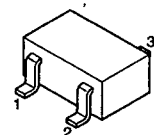
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MA110  
1T363



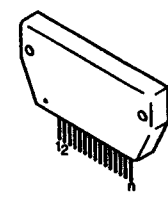
LM7912CT  
NJM7905FA  
MC7905CT



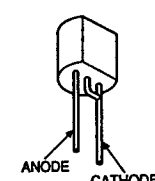
MN1382S



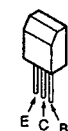
STK392-010



UPC574J



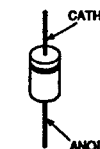
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2SB733-34  
2SD774-34



2SC4834M



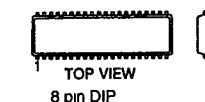
D2S4MF



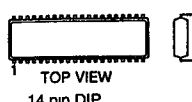
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RD3.3M-B1  
RD3.9M-B1  
RD4.7M-B2  
RD5.1M-B2  
RD5.6M-B2



M5218AP  
ST24C01CB1  
ST24C04CB1  
UPC358C



NJM2058D



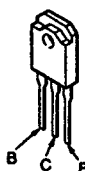
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UPC78N05H



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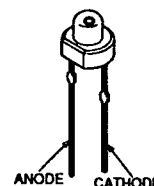
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D4SBS4-F  
LN4SB60-F



D8LC40-F



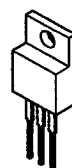
SLR-325VCT31



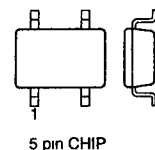
MB3512PFQ



NJM7805FA  
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NJM78M09FA  
TA7805S  
TA7812S



TC7SU04F



DTC124ES  
2SC2458-YGR



DAN202K

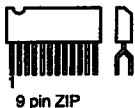


DAP202K



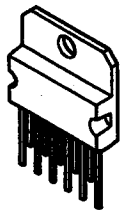
TDA6101Q

MARKING SIDE VIEW

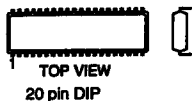


9 pin ZIP

TDA7265

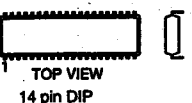


TDA8424



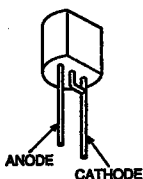
TOP VIEW  
20 pin DIP

UPC339C



TOP VIEW  
14 pin DIP

UPC574J



ANODE CATHODE

UPC78N05H



1 2 3

DTC124ES  
2SC2458-YGR



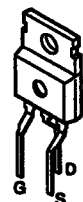
E C B

DTC323TS  
2SA1175-HFE  
2SC2785-HFE



LETTER SIDE  
E C B

IRFI640LF



G D S

2SA1013-R-TPE6  
2SA1208-S



E C B

2SA1162-G  
2SC1623-L5L6  
2SD601A-Q



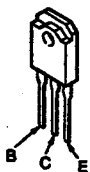
C E B

2SA1221-L  
2SB733-34  
2SD774-34



E C B

2SA1492M-OPY



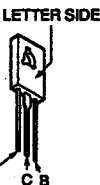
B C E

2SA1837  
2SC4793  
2SD2348(LBSONY-2)



B C E

2SB649A-C  
2SC2688-LK



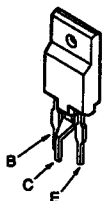
E C B

2SC2878-AB



E C B

2SC4632LS-CB7  
2SD1877-CA



B C E

2SC4834M

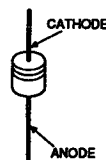


B C E

D10SBS4-F  
D4SBS4-F  
LN4SB60-F

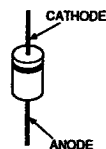


D1N20R  
ERA85-009  
ERC91-02TP11  
RD10ESB2  
RD11ESB2  
RD13ESB2  
RD15ESB2  
RD18ESB2  
RD2.0ESB2  
RD2.2ESB2  
RD22ESB3  
RD24ESB  
RD3.3ESB2  
RD3.9ESB2  
RD33ESB1  
RD39ESB2  
RD5.1ESB1  
RD5.1ESB2  
RD5.6ESB1  
RD5.6ESB2  
RD8.2ESB2  
RD9.1ESL  
11ES2  
1SS119-25



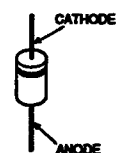
CATHODE  
ANODE

D1NL20  
D1NL40-TR2  
D2L40-TA  
EL1Z  
ERD28-08S  
GP08D  
RGP02-20EL-6394  
1SS83



CATHODE  
ANODE

D2S4MF



CATHODE  
ANODE

D8LC40-F



1 2 3

DAN202K



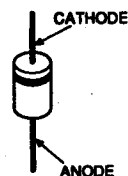
1 2 3

DAP202K



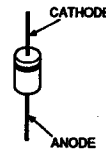
1 2 3

EGP-20G



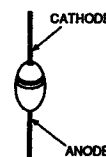
CATHODE  
ANODE

ERC06-15S  
ERC91-02  
RU-1C



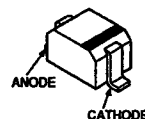
CATHODE  
ANODE

ERC38-06  
V09G



CATHODE  
ANODE

HVU359TRF  
MA110  
1T363



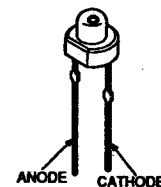
ANODE CATHODE

RD13M-B3  
RD3.3M-B1  
RD3.9M-B1  
RD4.7M-B2  
RD5.1M-B2  
RD5.6M-B2



1 2 3

SLR-325VCT31



ANODE CATHODE

## SECTION 5 EXPLODED VIEWS

### NOTE:

- Items with no part number and no description are not stocked because they are seldom required for routine service

- The construction parts of an assembled part are indicated with a collation number in the remark column.

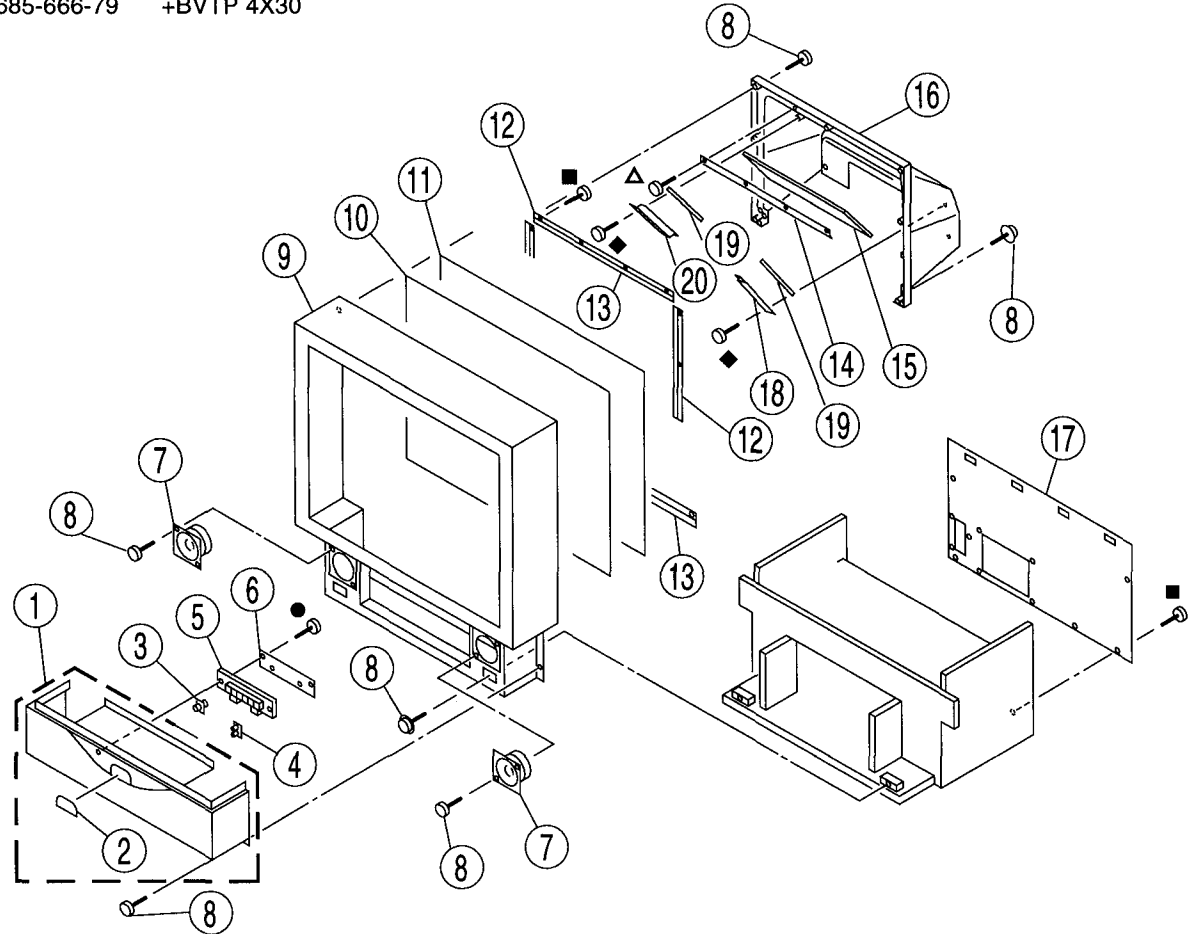
- Items marked " \* " are not stocked since they are seldom required for routine service Some delay should be anticipated when ordering these items

The components identified by shading and mark ▲ are critical for safety  
Replace only with part number specified

Les composants identifiés par une trame et une marque ▲ sont critiques pour la sécurité  
Ne les remplacer que par une pièce portant le numéro spécifié

### 5-1. SCREEN AND CONTROL BLOCK

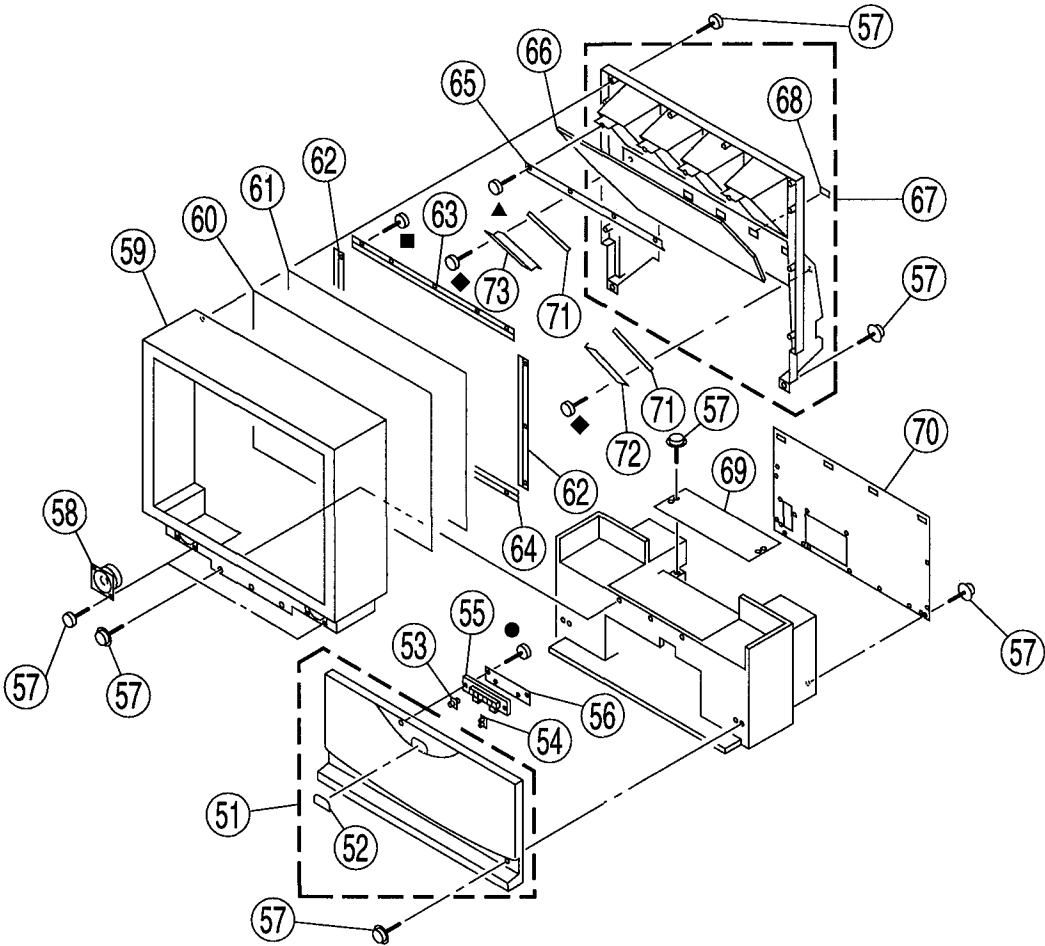
- 7-685-648-79 +BVTP 3X12
- △ 7-685-661-79 +BVTP 4X12
- 7-685-663-79 +BVTP 4X16
- ◆ 7-685-666-79 +BVTP 4X30



| REF NO | PART NO        | DESCRIPTION           | REMARK | REF NO | PART NO        | DESCRIPTION             | REMARK                       |
|--------|----------------|-----------------------|--------|--------|----------------|-------------------------|------------------------------|
| 1      | X-4032-545-1   | PANEL ASSY, CONTROL   |        | 13     | 4-036-091-31   | HOLDER (L), SCREEN      |                              |
| 2      | 4-048-000-01   | DOOR, CONTROL         |        | 14     | * 4-037-351-01 | HOLDER, MIRROR          |                              |
| 3      | 4-047-999-01   | FILTER, REMOTE        |        |        | * 4-037-351-01 | HOLDER, MIRROR          |                              |
| 4      | 4-047-998-01   | GUIDE, LIGHT, LED     |        | 15     | 4-047-861-01   | MIRROR (41), REFLECTION |                              |
| 5      | 4-048-001-01   | BUTTON, MULTI         |        | 16     | X-4032-607-1   | COVER, MIRROR           |                              |
| 6      | * A-1372-099-A | HA BOARD, COMPLETE    |        | 17     | * 4-047-837-01 | PLATE (41), REAR        |                              |
| 7      | 1-504-785-11   | SPEAKER (10CM)        |        | 18     | * 4-049-096-01 | HOLDER (RIGHT), SIDE    | (KP-46S17/46S25/53S17/53S25) |
| 8      | 4-041-164-11   | SCREW (4X20), TAPPING |        | 19     | * 4-049-098-01 | CUSHION                 | (KP-46S17/46S25/53S17/53S25) |
| 9      | X-4032-546-1   | BEZNET ASSY           |        |        |                |                         |                              |
| 10     | 4-034-053-01   | PLATE (L), DIFFUSION  |        | 20     | * 4-049-097-01 | HOLDER (LEFT), SIDE     | (KP-46S17/46S25/53S17/53S25) |
| 11     | 4-047-943-11   | PLATE (F), DIFFUSION  |        |        |                |                         |                              |
| 12     | 4-036-092-01   | HOLDER (S), SCREEN    |        |        |                |                         |                              |

5-2. MIRROR COVER AND POWER BLOCK

- 7-685-648-79 +BVTP 3X12
- ▲ 7-685-661-79 +BVTP 4X12
- 7-685-663-79 +BVTP 4X16
- ◆ 7-685-666-79 +BVTP 4X30



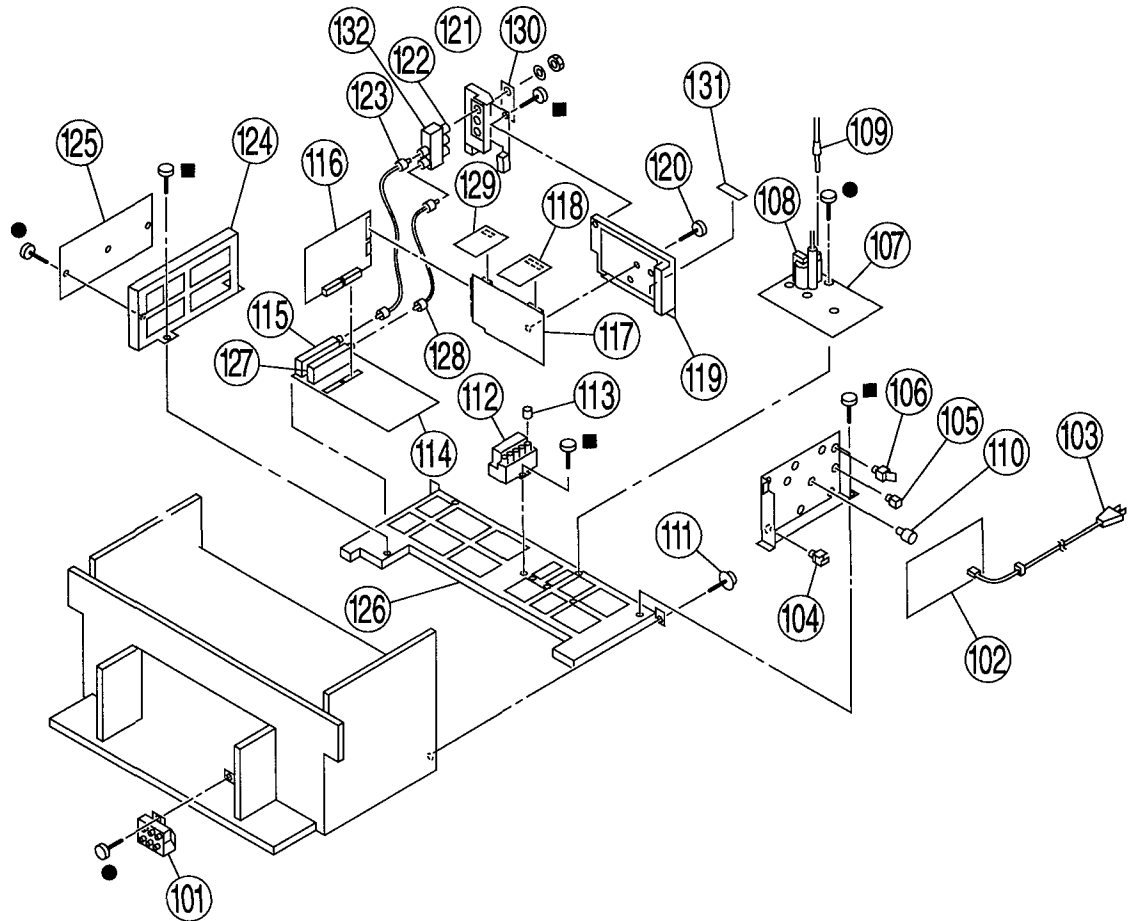
| REF NO. | PART NO        | DESCRIPTION                           | REMARK | REF NO | PART NO        | DESCRIPTION                              | REMARK |
|---------|----------------|---------------------------------------|--------|--------|----------------|------------------------------------------|--------|
| 51      | X-4032-614-2   | GRILLE ASSY, SPEAKER                  | 52     | 63     | * 4-048-159-01 | HOLDER (L), SCREEN (KP-46S17/46S25)      |        |
| 52      | 4-048-000-01   | DOOR, CONTROL                         |        |        | * 4-048-159-11 | HOLDER (L), SCREEN (KP-53S17/53S25)      |        |
| 53      | 4-047-999-01   | FILTER, REMOTE                        |        | 64     | * 4-048-159-21 | HOLDER (L), SCREEN (KP-46S17/46S25)      |        |
| 54      | 4-047-998-01   | GUIDE, LIGHT, LED                     |        |        | * 4-048-159-31 | HOLDER (L), SCREEN (KP-53S17/53S25)      |        |
| 55      | 4-048-001-01   | BUTTON, MULTI                         |        | 65     | 4-036-092-01   | HOLDER, MIRROR                           |        |
| 56      | * A-1372-099-A | HA BOARD, COMPLETE                    |        | 66     | 4-048-181-01   | MIRROR (46), REFLECTION (KP-46S17/46S25) |        |
| 57      | 4-041-164-11   | SCREW (4X20), TAPPING                 |        |        | 4-048-181-01   | MIRROR (53), REFLECTION (KP-53S17/53S25) |        |
| 58      | 1-504-785-11   | SPEAKER (10CM)                        |        | 67     | * X-4032-619-3 | COVER ASSY, MIRROR (KP-46S17/46S25)      |        |
| 59      | X-4032-617-2   | BEZNET ASSY (46S) (KP-46S17/46S25)    |        |        | * X-4032-620-3 | COVER ASSY, MIRROR (KP-53S17/53S25)      |        |
|         | X-4032-618-1   | BEZNET ASSY (53S) (KP-53S17/53S25)    |        | 69     | * 4-048-160-01 | PLATE, SHIELD (KP-46S17/46S25)           |        |
| 60      | 4-036-466-11   | PLATE (L), DIFFUSION (KP-53S17/53S25) |        |        | * 4-048-161-01 | PLATE, SHIELD (KP-53S17/53S25)           |        |
|         | 4-037-360-11   | PLATE (L), DIFFUSION (KP-46S17/46S25) |        | 70     | * 4-048-168-01 | PLATE, REAR (KP-53S17/53S25)             |        |
| 61      | 4-036-469-01   | PLATE (F), DIFFUSION (KP-53S17/53S25) |        |        | * 4-048-169-01 | PLATE, REAR (KP-46S17/46S25)             |        |
|         | 4-048-205-11   | PLATE (F), DIFFUSION (KP-46S17/46S25) |        | 71     | * 4-049-098-01 | CUSHION                                  |        |
| 62      | * 4-048-152-01 | HOLDER (S), SCREEN (KP-46S17/46S25)   |        | 72     | * 4-049-096-01 | HOLDER (RIGHT), SIDE                     |        |
|         | * 4-048-152-11 | HOLDER (S), SCREEN (KP-53S17/53S25)   |        | 73     | * 4-049-097-01 | HOLDER (LEFT), SIDE                      |        |

The components identified by shading and mark  $\Delta$  are critical for safety. Replace only with part number specified.

Les composants identifiés par une trame et une marque  $\Delta$  sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

### 5-3. DC AND E BLOCK

- 7-685-648-79 +BVTP 3X12
- 7-685-663-79 +BVTP 4X16



| REF NO | PART NO               | DESCRIPTION                        | REMARK        |
|--------|-----------------------|------------------------------------|---------------|
| 101    | $\Delta$ 1-223-925-21 | RESISTOR ASSY (HIGH-VOLTAGE)       |               |
| 102    | * A-1316-212-A        | G BOARD, COMPLETE                  |               |
| 103    | $\Delta$ 1-769-837-11 | CORD, POWER (WITH NOISE FILTER)    | (7.0A/125V)   |
| 104    | * 3-659-682-11        | HOLDER, PC BOARD                   |               |
| 105    | * 4-382-848-02        | HOLDER, PCB                        |               |
| 106    | * 3-703-141-11        | HOLDER, PCB                        |               |
| 107    | * A-1341-885-A        | E BOARD, COMPLETE                  |               |
| 108    | $\Delta$ 1-453-189-11 | TRANSFORMER ASSY, FLYBACK          | (NX2631//A4S) |
| 109    | $\Delta$ 1-900-211-34 | LEAD ASSY, HV                      |               |
| 110    | * 3-687-542-41        | SPACER, PC BOARD SPACE             |               |
| 111    | 4-041-164-11          | SCREW (4X20), TAPPING              |               |
| 112    | $\Delta$ 8-598-955-00 | BLOCK ASSY, HIGH-VOLTAGE           |               |
| 113    | 4-373-137-01          | CAP (Z), RUBBER                    |               |
| 114    | * A-1297-605-A        | A BOARD, COMPLETE (KP-46S17/53S17) |               |
|        | * A-1297-813-A        | A BOARD, COMPLETE (KP-46S25/53S25) |               |
|        | * A-1297-814-A        | A BOARD, COMPLETE (KP-41T25)       |               |
| 115    | $\Delta$ 8-598-254-00 | TUNER (BTF-WA402)                  |               |
| 116    | * A-1306-497-A        | M BOARD, COMPLETE (KP-41T25)       |               |
|        | * A-1306-498-A        | M BOARD, COMPLETE (KP-46S17/53S17) |               |
|        | * A-1306-530-A        | M BOARD, COMPLETE (KP-46S25/53S25) |               |

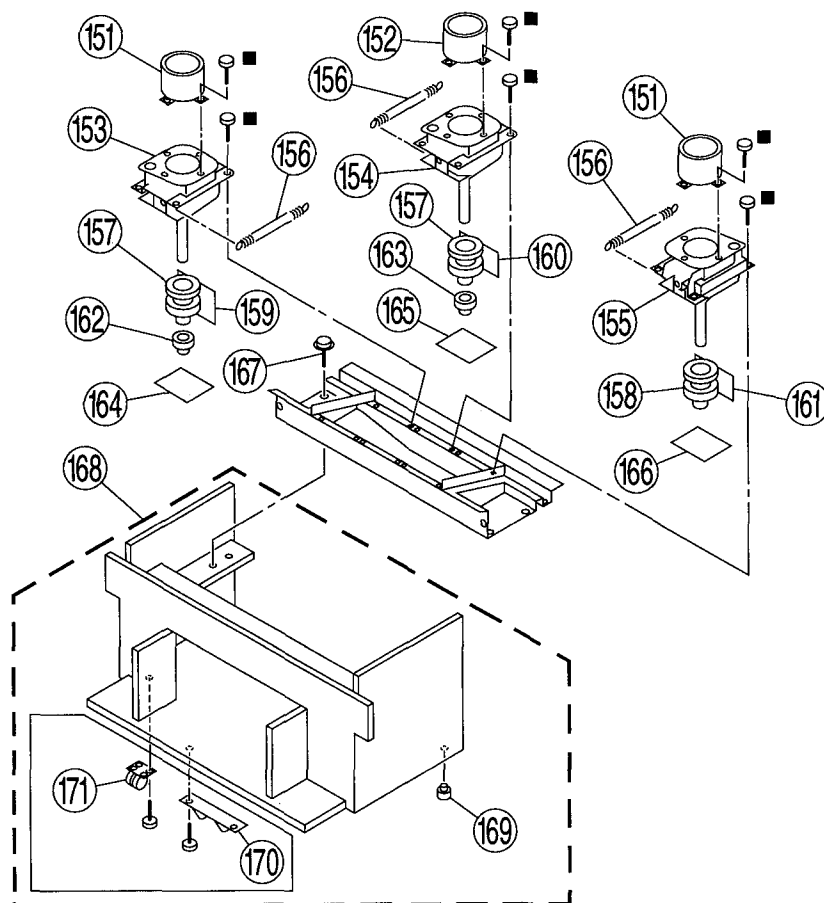
| REF NO | PART NO               | DESCRIPTION                        | REMARK                       |
|--------|-----------------------|------------------------------------|------------------------------|
| 117    | * A-1373-511-A        | U BOARD, COMPLETE (KP-46S17/53S17) |                              |
|        | * A-1373-562-A        | U BOARD, COMPLETE                  | (KP-41T25/46S25/53S25)       |
| 118    | * A-1195-062-A        | P BOARD, COMPLETE                  |                              |
| 119    | 4-047-951-01          | TERMINAL BOARD (A)                 |                              |
| 120    | 4-041-165-01          | SCREW (3X12), TAPPING, +BV         |                              |
| 121    | 4-047-952-11          | TERMINAL BOARD (B)                 |                              |
| 122    | 1-561-306-00          | JACK, PIN (F) (KP-46S17/53S17)     |                              |
| 123    | 1-556-945-21          | CABLE, P-P                         |                              |
| 124    | * 4-047-950-01        | BRACKET, D PC BOARD                |                              |
| 125    | * A-1346-296-A        | D BOARD, COMPLETE                  |                              |
| 126    | * 4-047-949-01        | BRACKET, MAIN PC BOARD             |                              |
| 127    | $\Delta$ 8-598-047-11 | TUNER, ET (BTF-LA401)              | (KP-41T25/46S25/53S25)       |
| 128    | 1-557-056-41          | CABLE, P-P                         |                              |
| 129    | * A-1394-681-A        | TR2 BOARD, COMPLETE                |                              |
| 130    | 4-047-937-01          | LABEL (B), TERMINAL                | (KP-46S17/46S25/53S17/53S25) |
| 131    | 4-049-665-01          | LABEL, IN/OUT                      |                              |
| 132    | 1-417-178-11          | SELECTOR, ANTENA (AS-2)            | (KP-46S17/46S25/53S17/53S25) |

The components identified by shading and mark  $\Delta$ , are critical for safety  
Replace only with part number specified

Les composants identifiés par une trame et une marque  $\Delta$  sont critiques pour la sécurité  
Ne les remplacer que par une pièce portant le numéro spécifié.

## 5-4. SHIELD AND MIRROR HOLDER BLOCK

■ 7-685-663-79 +BVTP 4X16



| REF NO | PART NO               | DESCRIPTION                             | REMARK | REF NO | PART NO               | DESCRIPTION                           | REMARK                       |
|--------|-----------------------|-----------------------------------------|--------|--------|-----------------------|---------------------------------------|------------------------------|
| 151    | 4-034-057-01          | LENS (LINNIT)                           |        | 161    | * A-1390-491-A        | ZB BOARD, COMPLETE                    |                              |
| 152    | 4-034-057-11          | LENS (LINNIT)                           |        | 162    | $\Delta$ 1-452-790-21 | NECK ASSY (KP-41T25)                  |                              |
| 153    | $\Delta$ 8-736-077-15 | PICTURE TUBE 07MAC2 (R)                 |        | 163    | $\Delta$ 1-452-790-11 | NECK ASSY (KP-41T25)                  |                              |
|        |                       | (KP-41T25/46S17/46S25)                  |        | 164    | * A-1331-498-A        | CR BOARD, COMPLETE                    |                              |
| 153    | $\Delta$ 8-736-077-25 | PICTURE TUBE 07MAC3(R) (KP-53S17/53S25) |        | 165    | * A-1331-499-A        | CG BOARD, COMPLETE                    |                              |
| 154    | $\Delta$ 8-736-075-05 | PICTURE TUBE 07MAC2(G)                  |        | 166    | * A-1331-500-A        | CB BOARD, COMPLETE                    |                              |
| 155    | $\Delta$ 8-736-076-15 | PICTURE TUBE 07MAC2 (B)                 |        | 167    | 4-052-894-01          | SCREW (4X20), TAPPING                 |                              |
|        |                       | (KP-41T25/46S17/46S25)                  |        | 168    | * X-4032-547-1        | CABINET ASSY, BOTTOM (KP-41T25)       | 169                          |
|        | $\Delta$ 8-736-076-25 | PICTURE TUBE 07MAC3(B) (KP-53S17/53S25) |        |        | * X-4032-615-1        | CABINET ASSY, BOTTOM (KP-46S17/46S25) | 171,170                      |
| 156    | 4-048-142-01          | SPRING, TENSION                         |        | 168    | * X-4032-616-1        | CABINET ASSY, BOTTOM (KP-53S17/53S25) | 171,170                      |
| 157    | $\Delta$ 8-451-463-11 | DEFLECTION YOKE (Y829PA2N)              |        | 169    | 4-047-987-01          | FOOT (KP-41T25)                       |                              |
| 158    | $\Delta$ 8-451-463-21 | DEFLECTION YOKE (Y829PA2N2)             |        | 170    | 4-048-175-01          | FOOT, PLASTIC                         | (KP-46S17/46S25/53S17/53S25) |
| 159    | * A-1390-487-A        | ZR BOARD, COMPLETE (KP-41T25)           |        | 171    | 4-040-755-01          | CASTER (DIA 30)                       | (KP-46S17/46S25/53S17/53S25) |
|        | * A-1390-513-A        | ZR BOARD, COMPLETE                      |        |        |                       |                                       |                              |
|        |                       | (KP-46S17/46S25/53S17/53S25)            |        |        |                       |                                       |                              |
| 160    | * A-1390-489-A        | ZG BOARD, COMPLETE (KP-41T25)           |        |        |                       |                                       |                              |
|        | * A-1390-512-A        | ZG BOARD, COMPLETE                      |        |        |                       |                                       |                              |
|        |                       | (KP-46S17/46S25/53S17/53S25)            |        |        |                       |                                       |                              |



## SECTION 6

# ELECTRICAL PARTS LIST

P

### NOTE:

Les composants identifiés par une trame et une marque  $\Delta$  sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

The components identified by shading and mark  $\Delta$  are critical for safety. Replace only with part number specified.

• The components identified by  $\Delta$  in this manual have been carefully factory-selected for each set in order to satisfy regulations regarding X-ray radiation. Should replacement be required, replace only with the value originally used.

• Items marked " \* " are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

• All variable and adjustable resistors have characteristic curve B, unless otherwise noted.

### RESISTORS

- All resistors are in ohms
- F : nonflammable

When indicating parts by reference number, please include the board name.

• CAPACITORS  
PF :  $\mu$ F

• There are some cases the reference number on one board overlaps on the other board. Therefore, when ordering parts by the reference number, please include the board name.

| REF NO                                    | PART NO      | DESCRIPTION          | REMARK  | REF NO      | PART NO      | DESCRIPTION                   | REMARK  |
|-------------------------------------------|--------------|----------------------|---------|-------------|--------------|-------------------------------|---------|
| * A-1195-062-A P BOARD, COMPLETE<br>***** |              |                      |         | C3252       | 1-163-103-00 | CERAMIC CHIP 27PF             | 5% 50V  |
| <CAPACITOR>                               |              |                      |         | C3253       | 1-163-101-00 | CERAMIC CHIP 22PF             | 5% 50V  |
| C3201                                     | 1-126-967-11 | ELECT 47MF           | 20% 16V | C3254       | 1-163-141-00 | CERAMIC CHIP 0.001MF          | 5% 50V  |
| C3203                                     | 1-164-004-11 | CERAMIC CHIP 0.1MF   | 10% 25V | C3255       | 1-163-101-00 | CERAMIC CHIP 22PF             | 5% 50V  |
| C3204                                     | 1-126-964-11 | ELECT 10MF           | 20% 50V | C3256       | 1-164-232-11 | CERAMIC CHIP 0.01MF           | 10% 50V |
| C3205                                     | 1-126-964-11 | ELECT 10MF           | 20% 50V | C3257       | 1-163-117-00 | CERAMIC CHIP 100PF            | 5% 50V  |
| C3206                                     | 1-126-964-11 | ELECT 10MF           | 20% 50V | C3258       | 1-163-113-00 | CERAMIC CHIP 68PF             | 5% 50V  |
| C3207                                     | 1-163-117-00 | CERAMIC CHIP 100PF   | 5% 50V  | C3259       | 1-163-111-00 | CERAMIC CHIP 56PF             | 5% 50V  |
| C3208                                     | 1-163-117-00 | CERAMIC CHIP 100PF   | 5% 50V  | C3260       | 1-163-119-00 | CERAMIC CHIP 120PF            | 5% 50V  |
| C3209                                     | 1-126-962-11 | ELECT 3.3MF          | 20% 50V | C3261       | 1-163-141-00 | CERAMIC CHIP 0.001MF          | 5% 50V  |
| C3210                                     | 1-126-967-11 | ELECT 47MF           | 20% 16V | C3263       | 1-163-141-00 | CERAMIC CHIP 0.001MF          | 5% 50V  |
| C3212                                     | 1-126-962-11 | ELECT 3.3MF          | 20% 50V | C3264       | 1-165-319-11 | CERAMIC CHIP 0.1MF            | 5% 50V  |
| C3213                                     | 1-164-346-11 | CERAMIC CHIP 1MF     | 16V     | C3265       | 1-163-141-00 | CERAMIC CHIP 0.001MF          | 5% 50V  |
| C3214                                     | 1-164-346-11 | CERAMIC CHIP 1MF     | 16V     | C3266       | 1-163-141-00 | CERAMIC CHIP 0.001MF          | 5% 50V  |
| C3215                                     | 1-164-346-11 | CERAMIC CHIP 1MF     | 16V     | C3267       | 1-163-141-00 | CERAMIC CHIP 0.001MF          | 5% 50V  |
| C3216                                     | 1-164-005-11 | CERAMIC CHIP 0.47MF  | 25V     | C3268       | 1-163-141-00 | CERAMIC CHIP 0.001MF          | 5% 50V  |
| C3217                                     | 1-164-346-11 | CERAMIC CHIP 1MF     | 16V     | C3269       | 1-163-141-00 | CERAMIC CHIP 0.001MF          | 5% 50V  |
| C3218                                     | 1-164-346-11 | CERAMIC CHIP 1MF     | 16V     | C3270       | 1-165-319-11 | CERAMIC CHIP 0.1MF            | 5% 50V  |
| C3219                                     | 1-126-935-11 | ELECT 470MF          | 20% 16V | C3271       | 1-165-319-11 | CERAMIC CHIP 0.1MF            | 5% 50V  |
| C3220                                     | 1-164-346-11 | CERAMIC CHIP 1MF     | 16V     | C3272       | 1-165-319-11 | CERAMIC CHIP 0.1MF            | 5% 50V  |
| C3221                                     | 1-164-346-11 | CERAMIC CHIP 1MF     | 16V     | C3273       | 1-163-109-00 | CERAMIC CHIP 47PF             | 5% 50V  |
| C3222                                     | 1-164-336-11 | CERAMIC CHIP 0.33MF  | 25V     | C3274       | 1-163-101-00 | CERAMIC CHIP 22PF             | 5% 50V  |
| C3223                                     | 1-164-336-11 | CERAMIC CHIP 0.33MF  | 25V     | C3275       | 1-163-101-00 | CERAMIC CHIP 22PF             | 5% 50V  |
| C3224                                     | 1-164-222-11 | CERAMIC CHIP 0.22MF  | 25V     | C3276       | 1-163-111-00 | CERAMIC CHIP 56PF             | 5% 50V  |
| C3225                                     | 1-164-222-11 | CERAMIC CHIP 0.22MF  | 25V     | C3277       | 1-163-101-00 | CERAMIC CHIP 22PF             | 5% 50V  |
| C3226                                     | 1-164-005-11 | CERAMIC CHIP 0.47MF  | 25V     | C3278       | 1-163-101-00 | CERAMIC CHIP 22PF             | 5% 50V  |
| C3227                                     | 1-164-346-11 | CERAMIC CHIP 1MF     | 16V     | C3279       | 1-163-141-00 | CERAMIC CHIP 0.001MF          | 5% 50V  |
| C3228                                     | 1-163-117-00 | CERAMIC CHIP 100PF   | 5% 50V  | C3280       | 1-126-964-11 | ELECT 10MF                    | 20% 50V |
| C3229                                     | 1-163-093-00 | CERAMIC CHIP 10PF    | 5% 50V  | C3282       | 1-164-346-11 | CERAMIC CHIP 1MF              | 16V     |
| C3230                                     | 1-163-141-00 | CERAMIC CHIP 0.001MF | 5% 50V  | <CONNECTOR> |              |                               |         |
| C3231                                     | 1-163-125-00 | CERAMIC CHIP 220PF   | 5% 50V  | CN150       | 1-573-297-21 | CONNECTOR, BOARD TO BOARD 18P |         |
| C3232                                     | 1-163-117-00 | CERAMIC CHIP 100PF   | 5% 50V  | <DIODE>     |              |                               |         |
| C3233                                     | 1-164-232-11 | CERAMIC CHIP 0.01MF  | 10% 50V | D3202       | 8-719-031-68 | DIODE HVU359TRF               |         |
| C3234                                     | 1-164-232-11 | CERAMIC CHIP 0.01MF  | 10% 50V | D3203       | 8-719-404-46 | DIODE MA110                   |         |
| C3235                                     | 1-164-232-11 | CERAMIC CHIP 0.01MF  | 10% 50V | D3208       | 8-719-110-17 | DIODE RD10ESB2                |         |
| C3236                                     | 1-164-232-11 | CERAMIC CHIP 0.01MF  | 10% 50V | D3209       | 8-719-110-17 | DIODE RD10ESB2                |         |
| C3237                                     | 1-164-232-11 | CERAMIC CHIP 0.01MF  | 10% 50V | <IC>        |              |                               |         |
| C3238                                     | 1-163-101-00 | CERAMIC CHIP 22PF    | 5% 50V  | IC3200      | 8-759-288-13 | IC MSM51C262-ZS               |         |
| C3239                                     | 1-163-141-00 | CERAMIC CHIP 0.001MF | 5% 50V  | IC3201      | 8-759-093-29 | IC MB86144BPF-G-BND           |         |
| C3240                                     | 1-163-101-00 | CERAMIC CHIP 22PF    | 5% 50V  | IC3202      | 8-759-093-28 | IC MB40176PF-G-BND-EF         |         |
| C3241                                     | 1-163-103-00 | CERAMIC CHIP 27PF    | 5% 50V  | IC3203      | 8-759-093-28 | IC MB40176PF-G-BND-EF         |         |
| C3242                                     | 1-164-232-11 | CERAMIC CHIP 0.01MF  | 10% 50V | IC3204      | 8-759-093-25 | IC MB3512PFQ                  |         |
| C3243                                     | 1-163-117-00 | CERAMIC CHIP 100PF   | 5% 50V  | IC3205      | 8-759-243-19 | IC TC7SU04F                   |         |
| C3244                                     | 1-163-113-00 | CERAMIC CHIP 68PF    | 5% 50V  | <COIL>      |              |                               |         |
| C3245                                     | 1-164-232-11 | CERAMIC CHIP 0.01MF  | 10% 50V | L3201       | 1-410-470-11 | INDUCTOR 10UH                 |         |
| C3246                                     | 1-164-232-11 | CERAMIC CHIP 0.01MF  | 10% 50V | L3202       | 1-408-424-00 | INDUCTOR 180UH                |         |
| C3247                                     | 1-163-033-91 | CERAMIC CHIP 0.022MF | 50V     |             |              |                               |         |
| C3248                                     | 1-163-125-00 | CERAMIC CHIP 220PF   | 5% 50V  |             |              |                               |         |
| C3249                                     | 1-163-117-00 | CERAMIC CHIP 100PF   | 5% 50V  |             |              |                               |         |
| C3250                                     | 1-163-113-00 | CERAMIC CHIP 68PF    | 5% 50V  |             |              |                               |         |
| C3251                                     | 1-164-232-11 | CERAMIC CHIP 0.01MF  | 10% 50V |             |              |                               |         |



| REF NO.      | PART NO      | DESCRIPTION          | REMARK      |
|--------------|--------------|----------------------|-------------|
| L3203        | 1-408-424-00 | INDUCTOR 180UH       |             |
| L3204        | 1-410-476-11 | INDUCTOR 33UH        |             |
| L3205        | 1-410-470-11 | INDUCTOR 10UH        |             |
| L3206        | 1-410-387-11 | INDUCTOR 33UH        |             |
| L3207        | 1-410-387-11 | INDUCTOR 33UH        |             |
| L3208        | 1-410-387-11 | INDUCTOR 33UH        |             |
| L3209        | 1-410-387-11 | INDUCTOR 33UH        |             |
| <TRANSISTOR> |              |                      |             |
| Q3201        | 8-729-216-22 | TRANSISTOR 2SA1162-G |             |
| Q3202        | 8-729-422-27 | TRANSISTOR 2SD601A-Q |             |
| Q3203        | 8-729-216-22 | TRANSISTOR 2SA1162-G |             |
| Q3204        | 8-729-216-22 | TRANSISTOR 2SA1162-G |             |
| Q3206        | 8-729-422-27 | TRANSISTOR 2SD601A-Q |             |
| Q3207        | 8-729-216-22 | TRANSISTOR 2SA1162-G |             |
| Q3208        | 8-729-422-27 | TRANSISTOR 2SD601A-Q |             |
| Q3209        | 8-729-216-22 | TRANSISTOR 2SA1162-G |             |
| Q3210        | 8-729-216-22 | TRANSISTOR 2SA1162-G |             |
| <RESISTOR>   |              |                      |             |
| R3201        | 1-216-097-91 | METAL GLAZE 100K     | 5% 1/10W    |
| R3202        | 1-216-073-00 | METAL GLAZE 10K      | 5% 1/10W    |
| R3203        | 1-216-025-91 | METAL GLAZE 100      | 5% 1/10W    |
| R3204        | 1-216-025-91 | METAL GLAZE 100      | 5% 1/10W    |
| R3205        | 1-216-121-91 | METAL GLAZE 1M       | 5% 1/10W    |
| R3207        | 1-216-295-91 | CONDUCTOR, CHIP      |             |
| R3208        | 1-216-097-91 | METAL GLAZE 100K     | 5% 1/10W    |
| R3209        | 1-216-079-00 | METAL GLAZE 18K      | 5% 1/10W    |
| R3210        | 1-216-089-91 | METAL GLAZE 47K      | 5% 1/10W    |
| R3211        | 1-216-073-00 | METAL GLAZE 10K      | 5% 1/10W    |
| R3212        | 1-216-073-00 | METAL GLAZE 10K      | 5% 1/10W    |
| R3213        | 1-216-075-00 | METAL GLAZE 12K      | 5% 1/10W    |
| R3214        | 1-216-121-91 | METAL GLAZE 1M       | 5% 1/10W    |
| R3215        | 1-216-057-00 | METAL GLAZE 2 2K     | 5% 1/10W    |
| R3216        | 1-216-057-00 | METAL GLAZE 2 2K     | 5% 1/10W    |
| R3217        | 1-216-057-00 | METAL GLAZE 2.2K     | 5% 1/10W    |
| R3218        | 1-216-049-91 | METAL GLAZE 1K       | 5% 1/10W    |
| R3219        | 1-216-049-91 | METAL GLAZE 1K       | 5% 1/10W    |
| R3220        | 1-216-049-91 | METAL GLAZE 1K       | 5% 1/10W    |
| R3221        | 1-216-655-11 | METAL CHIP 1 5K      | 0 50% 1/10W |
| R3222        | 1-216-655-11 | METAL CHIP 1.5K      | 0 50% 1/10W |
| R3223        | 1-216-025-91 | METAL GLAZE 100      | 5% 1/10W    |
| R3224        | 1-216-049-91 | METAL GLAZE 1K       | 5% 1/10W    |
| R3225        | 1-216-025-91 | METAL GLAZE 100      | 5% 1/10W    |
| R3226        | 1-216-085-00 | METAL GLAZE 33K      | 5% 1/10W    |
| R3227        | 1-216-647-11 | METAL CHIP 680       | 0 50% 1/10W |
| R3228        | 1-216-045-00 | METAL GLAZE 680      | 5% 1/10W    |
| R3229        | 1-216-073-00 | METAL GLAZE 10K      | 5% 1/10W    |
| R3230        | 1-216-073-00 | METAL GLAZE 10K      | 5% 1/10W    |
| R3231        | 1-216-001-00 | METAL GLAZE 10       | 5% 1/10W    |
| R3232        | 1-216-083-00 | METAL GLAZE 27K      | 5% 1/10W    |
| R3233        | 1-216-049-91 | METAL GLAZE 1K       | 5% 1/10W    |
| R3234        | 1-216-651-11 | METAL CHIP 1K        | 0 50% 1/10W |
| R3235        | 1-216-043-91 | METAL GLAZE 560      | 5% 1/10W    |
| R3236        | 1-216-065-00 | METAL GLAZE 4 7K     | 5% 1/10W    |
| R3237        | 1-216-043-91 | METAL GLAZE 560      | 5% 1/10W    |
| R3238        | 1-216-049-91 | METAL GLAZE 1K       | 5% 1/10W    |
| R3239        | 1-216-043-91 | METAL GLAZE 560      | 5% 1/10W    |
| R3241        | 1-216-057-00 | METAL GLAZE 2 2K     | 5% 1/10W    |
| R3242        | 1-216-049-91 | METAL GLAZE 1K       | 5% 1/10W    |
| R3243        | 1-216-025-91 | METAL GLAZE 100      | 5% 1/10W    |
| R3244        | 1-216-025-91 | METAL GLAZE 100      | 5% 1/10W    |
| R3245        | 1-216-025-91 | METAL GLAZE 100      | 5% 1/10W    |
| R3246        | 1-216-069-00 | METAL GLAZE 6 8K     | 5% 1/10W    |
| R3247        | 1-216-063-91 | METAL GLAZE 3 9K     | 5% 1/10W    |
| R3248        | 1-216-295-91 | CONDUCTOR, CHIP      |             |
| R3249        | 1-216-057-00 | METAL GLAZE 2 2K     | 5% 1/10W    |

| REF NO                                            | PART NO.     | DESCRIPTION       | REMARK      |
|---------------------------------------------------|--------------|-------------------|-------------|
| R3250                                             | 1-216-043-91 | METAL GLAZE 560   | 5% 1/10W    |
| R3251                                             | 1-216-049-91 | METAL GLAZE 1K    | 5% 1/10W    |
| R3252                                             | 1-216-043-91 | METAL GLAZE 560   | 5% 1/10W    |
| R3253                                             | 1-216-065-00 | METAL GLAZE 4 7K  | 5% 1/10W    |
| R3254                                             | 1-216-043-91 | METAL GLAZE 560   | 5% 1/10W    |
| R3255                                             | 1-216-041-00 | METAL GLAZE 470   | 5% 1/10W    |
| R3256                                             | 1-216-043-91 | METAL GLAZE 560   | 5% 1/10W    |
| R3259                                             | 1-216-298-00 | METAL GLAZE 2 2   | 5% 1/10W    |
| R3260                                             | 1-216-073-00 | METAL GLAZE 10K   | 5% 1/10W    |
| R3263                                             | 1-216-025-91 | METAL GLAZE 100   | 5% 1/10W    |
| R3264                                             | 1-216-025-91 | METAL GLAZE 100   | 5% 1/10W    |
| R3265                                             | 1-216-049-91 | METAL GLAZE 1K    | 5% 1/10W    |
| R3266                                             | 1-216-057-00 | METAL GLAZE 2 2K  | 5% 1/10W    |
| R3267                                             | 1-216-055-00 | METAL GLAZE 1 8K  | 5% 1/10W    |
| R3268                                             | 1-216-053-00 | METAL GLAZE 1 5K  | 5% 1/10W    |
| R3269                                             | 1-216-057-00 | METAL GLAZE 2 2K  | 5% 1/10W    |
| R3270                                             | 1-216-657-11 | METAL CHIP 1 8K   | 0 50% 1/10W |
| R3271                                             | 1-216-655-11 | METAL CHIP 1 5K   | 0.50% 1/10W |
| R3273                                             | 1-216-073-00 | METAL GLAZE 10K   | 5% 1/10W    |
| R3274                                             | 1-216-049-91 | METAL GLAZE 1K    | 5% 1/10W    |
| R3275                                             | 1-216-049-91 | METAL GLAZE 1K    | 5% 1/10W    |
| R3276                                             | 1-216-049-91 | METAL GLAZE 1K    | 5% 1/10W    |
| R3277                                             | 1-216-298-00 | METAL GLAZE 2 2   | 5% 1/10W    |
| <CRYSTAL>                                         |              |                   |             |
| X3201                                             | 1-567-878-11 | VIBRATOR, CRYSTAL |             |
| X3202                                             | 1-567-878-11 | VIBRATOR, CRYSTAL |             |
| *****                                             |              |                   |             |
| * A-1297-605-A A BOARD, COMPLETE (KP-46S17/53S17) |              |                   |             |
| *****                                             |              |                   |             |
| * A-1297-813-A A BOARD, COMPLETE (KP-46S25/53S25) |              |                   |             |
| *****                                             |              |                   |             |
| * A-1297-814-A A BOARD, COMPLETE (KP-41T25)       |              |                   |             |
| *****                                             |              |                   |             |
| 4-365-216-00 SPACER, MICA                         |              |                   |             |
| 4-382-854-11 SCREW (M3X10), P, SW (+)             |              |                   |             |
| 7-322-065-19 RUBBER, SILICON RTV (KE490W)         |              |                   |             |
| (KP-41T25/46S25/53S25)                            |              |                   |             |
| <CAPACITOR>                                       |              |                   |             |
| C201                                              | 1-104-665-11 | ELECT 100MF       | 20% 25V     |
| C202                                              | 1-102-125-00 | CERAMIC 0 0047MF  | 10% 50V     |
| C203                                              | 1-130-489-00 | FILM 0 033MF      | 5% 50V      |
| C204                                              | 1-124-902-00 | ELECT 0 47MF      | 20% 50V     |
| C205                                              | 1-104-665-11 | ELECT 100MF       | 20% 25V     |
| C206                                              | 1-124-902-00 | ELECT 0 47MF      | 20% 50V     |
| C207                                              | 1-124-903-11 | ELECT 1MF         | 20% 50V     |
| C208                                              | 1-124-768-11 | ELECT 4 7MF       | 20% 50V     |
| C209                                              | 1-124-903-11 | ELECT 1MF         | 20% 50V     |
| C210                                              | 1-102-125-00 | CERAMIC 0 0047MF  | 10% 50V     |
| C211                                              | 1-130-489-00 | FILM 0.033MF      | 5% 50V      |
| C212                                              | 1-124-768-11 | ELECT 4 7MF       | 20% 50V     |
| C220                                              | 1-126-964-11 | ELECT 10MF        | 20% 50V     |
| C221                                              | 1-126-964-11 | ELECT 10MF        | 20% 50V     |
| C222                                              | 1-126-964-11 | ELECT 10MF        | 20% 50V     |
| C223                                              | 1-126-964-11 | ELECT 10MF        | 20% 50V     |
| C226                                              | 1-104-665-11 | ELECT 100MF       | 20% 25V     |
| C232                                              | 1-104-664-11 | ELECT 47MF        | 20% 25V     |
| C233                                              | 1-104-664-11 | ELECT 47MF        | 20% 25V     |
| C234                                              | 1-104-664-11 | ELECT 47MF        | 20% 25V     |
| C236                                              | 1-124-902-00 | ELECT 0 47MF      | 20% 50V     |
| C238                                              | 1-104-665-11 | ELECT 100MF       | 20% 25V     |
| C239                                              | 1-126-943-11 | ELECT 2200MF      | 20% 25V     |

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| REF. NO. | PART NO.       | DESCRIPTION                   | REMARK                                     | REF. NO. | PART NO.     | DESCRIPTION                                      | REMARK |
|----------|----------------|-------------------------------|--------------------------------------------|----------|--------------|--------------------------------------------------|--------|
| C240     | 1-126-943-11   | ELECT                         | 220MF 20% 25V                              | D232     | 8-719-991-33 | DIODE 1SS133T-77                                 |        |
| C241     | 1-137-399-11   | FILM                          | 0.1MF 5% 50V                               | D235     | 8-719-991-33 | DIODE 1SS133T-77                                 |        |
| C242     | 1-137-399-11   | FILM                          | 0.1MF 5% 50V                               | D262     | 8-719-991-33 | DIODE 1SS133T-77                                 |        |
| C243     | 1-137-399-11   | FILM                          | 0.1MF 5% 50V                               | D263     | 8-719-991-33 | DIODE 1SS133T-77                                 |        |
| C244     | 1-104-665-11   | ELECT                         | 100MF 20% 25V                              | D264     | 8-719-991-33 | DIODE 1SS133T-77                                 |        |
| C245     | 1-137-399-11   | FILM                          | 0.1MF 5% 50V                               | D501     | 8-719-991-33 | DIODE 1SS133T-77                                 |        |
| C262     | 1-104-664-11   | ELECT                         | 47MF 20% 25V                               | D502     | 8-719-983-14 | DIODE MTZJ-T-77-3.9                              |        |
| C263     | 1-104-665-11   | ELECT                         | 100MF 20% 25V                              | D504     | 8-719-991-33 | DIODE 1SS133T-77                                 |        |
| C264     | 1-104-665-11   | ELECT                         | 100MF 20% 25V                              | D505     | 8-719-991-33 | DIODE 1SS133T-77                                 |        |
| C265     | 1-104-665-11   | ELECT                         | 100MF 20% 25V                              | D506     | 8-719-300-80 | DIODE RU-1C                                      |        |
| C266     | 1-104-665-11   | ELECT                         | 100MF 20% 25V                              | D507     | 8-719-018-82 | DIODE RGP02-20EL-6394                            |        |
| C267     | 1-104-664-11   | ELECT                         | 47MF 20% 25V                               | D509     | 8-719-900-95 | DIODE V09G                                       |        |
| C501     | 1-124-902-00   | ELECT                         | 0.47MF 20% 50V                             | D510     | 8-719-900-95 | DIODE V09G                                       |        |
| C502     | 1-104-664-11   | ELECT                         | 47MF 20% 25V                               | D511     | 8-719-991-33 | DIODE 1SS133T-77                                 |        |
| C503     | 1-137-370-11   | FILM                          | 0.01MF 5% 50V                              | D1001    | 8-719-982-24 | DIODE MTZJ-33A                                   |        |
| C504     | 1-102-973-00   | CERAMIC                       | 100PF 5% 50V                               | D1002    | 8-719-110-88 | DIODE RD39ESB2 (KP-41T25/46S25/53S25)            |        |
| C505     | 1-137-372-11   | FILM                          | 0.022MF 5% 50V                             |          |              | <IC>                                             |        |
| C506     | 1-123-024-21   | ELECT                         | 33MF 10% 160V                              | IC201    | 8-759-135-80 | IC uPC358C                                       |        |
| C507     | 1-107-368-11   | FILM                          | 0.047MF 10% 200V                           | IC202    | 8-759-090-21 | IC TDA8424                                       |        |
| C508     | 1-107-638-11   | ELECT                         | 33MF 20% 160V                              | IC230    | 8-759-190-89 | IC TDA7265                                       |        |
| C509     | 1-107-368-11   | FILM                          | 0.047MF 10% 200V                           | IC262    | 8-759-054-12 | IC PQ09RA1                                       |        |
| C510     | 1-102-030-00   | CERAMIC                       | 330PF 10% 500V                             | IC263    | 8-759-504-46 | IC PQ05RF1                                       |        |
| C511     | 1-137-414-11   | FILM                          | 0.0047MF 10% 100V                          | IC264    | 8-759-279-76 | IC MCT7812CT                                     |        |
| C512     | 1-162-115-00   | CERAMIC                       | 330PF 10% 2KV                              | IC1001   | 8-759-300-71 | IC HD14053BFP (KP-41T25/46S25/53S25)             |        |
| C513     | 1-136-598-11   | FILM                          | 3MF 5% 200V                                |          |              | <COIL>                                           |        |
| C514     | 1-136-613-11   | FILM                          | 0.0068MF 3% 2KV                            | L501     | 1-411-189-11 | COIL, CHOKE 15mH                                 |        |
| C515     | 1-162-114-00   | CERAMIC                       | 0.0047MF 2KV                               | L503     | 1-406-832-11 | COIL, HORIZONTAL LINEARITY (HLC)                 |        |
| C516     | 1-107-719-11   | ELECT                         | 220MF 20% 50V                              | L1001    | 1-408-408-00 | INDUCTOR 8.2UH                                   |        |
| C517     | 1-126-971-11   | ELECT                         | 470MF 20% 50V                              | L1002    | 1-408-408-00 | INDUCTOR 8.2UH                                   |        |
| C518     | 1-126-971-11   | ELECT                         | 470MF 20% 50V                              | L1003    | 1-408-421-00 | INDUCTOR 100UH                                   |        |
| C519     | 1-124-903-11   | ELECT                         | 1MF 20% 50V                                | L1004    | 1-408-408-00 | INDUCTOR 8.2UH (KP-41T25/46S25/53S25)            |        |
| C1001    | 1-126-963-11   | ELECT                         | 4.7MF 20% 50V                              | L1006    | 1-408-408-00 | INDUCTOR 8.2UH (KP-41T25/46S25/53S25)            |        |
| C1002    | 1-126-964-11   | ELECT                         | 10MF 20% 50V<br>(KP-41T25/46S25/53S25)     | L1007    | 1-408-408-00 | INDUCTOR 8.2UH (KP-41T25/46S25/53S25)            |        |
| C1003    | 1-126-965-11   | ELECT                         | 22MF 20% 50V<br>(KP-41T25/46S25/53S25)     |          |              | <TRANSISTOR>                                     |        |
| C1004    | 1-126-952-11   | ELECT                         | 1000MF 20% 16V                             | Q220     | 8-729-927-14 | TRANSISTOR DTC323TS                              |        |
| C1005    | 1-104-665-11   | ELECT                         | 100MF 20% 25V                              | Q221     | 8-729-119-76 | TRANSISTOR 2SA1175-HFE                           |        |
| C1006    | 1-101-004-00   | CERAMIC                       | 0.01MF 50V                                 | Q222     | 8-729-927-14 | TRANSISTOR DTC323TS                              |        |
| C1007    | 1-126-935-11   | ELECT                         | 470MF 20% 16V                              | Q223     | 8-729-119-76 | TRANSISTOR 2SA1175-HFE                           |        |
| C1008    | 1-101-004-00   | CERAMIC                       | 0.01MF 50V                                 | Q230     | 8-729-119-78 | TRANSISTOR 2SC2785-HFE                           |        |
| C1009    | 1-126-964-11   | ELECT                         | 10MF 20% 50V<br>(KP-41T25/46S25/53S25)     | Q231     | 8-729-119-78 | TRANSISTOR 2SC2785-HFE                           |        |
| C1010    | 1-126-964-11   | ELECT                         | 10MF 20% 50V                               | Q232     | 8-729-119-78 | TRANSISTOR 2SC2785-HFE                           |        |
| C1011    | 1-102-121-00   | CERAMIC                       | 0.0022MF 10% 50V<br>(KP-41T25/46S25/53S25) | Q234     | 8-729-119-78 | TRANSISTOR 2SC2785-HFE                           |        |
| C1012    | 1-102-121-00   | CERAMIC                       | 0.0022MF 10% 50V                           | Q235     | 8-729-119-76 | TRANSISTOR 2SA1175-HFE                           |        |
|          |                | <CONNECTOR>                   |                                            | Q236     | 8-729-119-78 | TRANSISTOR 2SC2785-HFE                           |        |
| CN221    | 1-573-298-21   | CONNECTOR, BOARD TO BOARD 20P |                                            | Q501     | 8-729-119-76 | TRANSISTOR 2SA1175-HFE                           |        |
| CN222    | 1-573-298-21   | CONNECTOR, BOARD TO BOARD 20P |                                            | Q502     | 8-729-119-76 | TRANSISTOR 2SA1175-HFE                           |        |
| CN223    | * 1-564-507-11 | PLUG, CONNECTOR 4P            |                                            | Q503     | 8-729-119-78 | TRANSISTOR 2SC2785-HFE                           |        |
| CN224    | * 1-564-507-11 | PLUG, CONNECTOR 4P            |                                            | Q504     | 8-729-119-78 | TRANSISTOR 2SC2785-HFE                           |        |
| CN225    | * 1-564-513-11 | PLUG, CONNECTOR 10P           |                                            | Q505     | 8-729-119-80 | TRANSISTOR 2SC2688-LK                            |        |
| CN511    | * 1-580-689-11 | PIN, CONNECTOR (PC BOARD) 4P  |                                            | Q506     | 8-729-201-32 | TRANSISTOR 2SA1013-O                             |        |
| CN527    | * 1-573-963-11 | PIN, CONNECTOR (PC BOARD) 3P  |                                            | Q507     | 8-729-304-92 | TRANSISTOR 2SB649A-C                             |        |
| CN528    | 1-695-915-11   | TAB (CONTACT)                 |                                            | Q508     | 8-729-201-32 | TRANSISTOR 2SA1013-O                             |        |
| CN541    | * 1-580-689-11 | PIN, CONNECTOR (PC BOARD) 4P  |                                            | Q509     | 8-729-010-98 | TRANSISTOR 2SA1492M-OPY                          |        |
| CN571    | * 1-580-689-11 | PIN, CONNECTOR (PC BOARD) 4P  |                                            | Q510     | 8-729-021-48 | TRANSISTOR 2SD2348LBSONY                         |        |
| CN1026   | * 1-564-506-11 | PLUG, CONNECTOR 3P            |                                            | Q511     | 8-729-119-76 | TRANSISTOR 2SA1175-HFE                           |        |
|          |                | <DIODE>                       |                                            | Q1001    | 8-729-119-76 | TRANSISTOR 2SA1175-HFE<br>(KP-41T25/46S25/53S25) |        |
| D201     | 8-719-110-17   | DIODE RD10ESB2                |                                            | Q1002    | 8-729-119-76 | TRANSISTOR 2SA1175-HFE<br>(KP-41T25/46S25/53S25) |        |
| D202     | 8-719-110-17   | DIODE RD10ESB2                |                                            | Q1003    | 8-729-119-76 | TRANSISTOR 2SA1175-HFE                           |        |
| D220     | 8-719-991-33   | DIODE 1SS133T-77              |                                            | Q1004    | 8-729-119-78 | TRANSISTOR 2SC2785-HFE                           |        |
| D221     | 8-719-991-33   | DIODE 1SS133T-77              |                                            |          |              |                                                  |        |
| D231     | 8-719-991-33   | DIODE 1SS133T-77              |                                            |          |              |                                                  |        |

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Les composants identifiés par  
une trame et une marque  $\Delta$   
sont critiques pour la sécurité  
Ne les remplacer que par une  
pièce portant le numéro spécifié

The componants identified by  
shading and mark  $\Delta$  are critical  
for safety  
Replace only with part number  
specified

| REF. NO    | PART NO      | DESCRIPTION        | REMARK |
|------------|--------------|--------------------|--------|
| <RESISTOR> |              |                    |        |
| R201       | 1-249-429-11 | CARBON 10K 5%      | 1/4W   |
| R203       | 1-249-429-11 | CARBON 10K 5%      | 1/4W   |
| R204       | 1-249-429-11 | CARBON 10K 5%      | 1/4W   |
| R205       | 1-249-429-11 | CARBON 10K 5%      | 1/4W   |
| R207       | 1-249-431-11 | CARBON 15K 5%      | 1/4W   |
| R208       | 1-249-429-11 | CARBON 10K 5%      | 1/4W   |
| R209       | 1-249-431-11 | CARBON 15K 5%      | 1/4W   |
| R210       | 1-247-815-91 | CARBON 220 5%      | 1/4W   |
| R211       | 1-249-429-11 | CARBON 10K 5%      | 1/4W   |
| R212       | 1-249-441-11 | CARBON 100K 5%     | 1/4W   |
| R213       | 1-249-441-11 | CARBON 100K 5%     | 1/4W   |
| R214       | 1-247-815-91 | CARBON 220 5%      | 1/4W   |
| R215       | 1-249-441-11 | CARBON 100K 5%     | 1/4W   |
| R216       | 1-249-441-11 | CARBON 100K 5%     | 1/4W   |
| R217       | 1-247-807-31 | CARBON 100 5%      | 1/4W   |
| R218       | 1-247-807-31 | CARBON 100 5%      | 1/4W   |
| R219       | 1-249-417-11 | CARBON 1K 5%       | 1/4W   |
| R220       | 1-249-429-11 | CARBON 10K 5%      | 1/4W   |
| R221       | 1-249-437-11 | CARBON 47K 5%      | 1/4W   |
| R222       | 1-249-417-11 | CARBON 1K 5%       | 1/4W   |
| R223       | 1-249-429-11 | CARBON 10K 5%      | 1/4W   |
| R224       | 1-249-429-11 | CARBON 10K 5%      | 1/4W   |
| R230       | 1-249-430-11 | CARBON 12K 5%      | 1/4W   |
| R231       | 1-249-429-11 | CARBON 10K 5%      | 1/4W   |
| R233       | 1-249-429-11 | CARBON 10K 5%      | 1/4W   |
| R234       | 1-249-441-11 | CARBON 100K 5%     | 1/4W   |
| R235       | 1-249-414-11 | CARBON 560 5%      | 1/4W   |
| R236       | 1-249-432-11 | CARBON 18K 5%      | 1/4W   |
| R237       | 1-249-414-11 | CARBON 560 5%      | 1/4W   |
| R238       | 1-249-431-11 | CARBON 15K 5%      | 1/4W   |
| R239       | 1-249-430-11 | CARBON 12K 5%      | 1/4W   |
| R241       | 1-249-439-11 | CARBON 68K 5%      | 1/4W   |
| R242       | 1-249-432-11 | CARBON 18K 5%      | 1/4W   |
| R243       | 1-247-863-91 | CARBON 22K 5%      | 1/4W   |
| R244       | 1-247-863-91 | CARBON 22K 5%      | 1/4W   |
| R246       | 1-247-863-91 | CARBON 22K 5%      | 1/4W   |
| R247       | 1-249-430-11 | CARBON 12K 5%      | 1/4W   |
| R249       | 1-247-807-31 | CARBON 100 5%      | 1/4W   |
| R250       | 1-249-417-11 | CARBON 1K 5%       | 1/4W   |
| R251       | 1-249-437-11 | CARBON 47K 5%      | 1/4W   |
| R252       | 1-249-417-11 | CARBON 1K 5%       | 1/4W   |
| R255       | 1-249-429-11 | CARBON 10K 5%      | 1/4W   |
| R257       | 1-249-429-11 | CARBON 10K 5%      | 1/4W   |
| R258       | 1-249-429-11 | CARBON 10K 5%      | 1/4W   |
| R259       | 1-216-357-00 | METAL OXIDE 4 7 5% | 1W F   |
| R260       | 1-216-357-00 | METAL OXIDE 4 7 5% | 1W F   |
| R501       | 1-249-421-11 | CARBON 2 2K 5%     | 1/4W   |
| R502       | 1-249-429-11 | CARBON 10K 5%      | 1/4W   |
| R503       | 1-249-441-11 | CARBON 100K 5%     | 1/4W   |
| R504       | 1-249-429-11 | CARBON 10K 5%      | 1/4W   |
| R505       | 1-215-437-00 | METAL 4 7K 1%      | 1/4W   |
| R506       | 1-215-433-00 | METAL 3 3K 1%      | 1/4W   |
| R507       | 1-249-407-11 | CARBON 150 5%      | 1/4W   |
| R508       | 1-249-421-11 | CARBON 2 2K 5%     | 1/4W   |
| R509       | 1-249-423-11 | CARBON 3 3K 5%     | 1/4W   |
| R510       | 1-249-417-11 | CARBON 1K 5%       | 1/4W   |
| R511       | 1-247-895-91 | CARBON 470K 5%     | 1/4W   |
| R512       | 1-215-925-11 | METAL OXIDE 22K 5% | 3W F   |
| R513       | 1-215-900-11 | METAL OXIDE 22K 5% | 2W F   |
| R514       | 1-249-421-11 | CARBON 2 2K 5%     | 1/4W F |
| R515       | 1-215-925-11 | METAL OXIDE 22K 5% | 3W F   |
| R516       | 1-249-430-11 | CARBON 12K 5%      | 1/4W F |
| R517       | 1-249-429-11 | CARBON 10K 5%      | 1/4W   |
| R518       | 1-249-427-11 | CARBON 6 8K 5%     | 1/4W F |
| R519       | 1-249-417-11 | CARBON 1K 5%       | 1/4W   |
| R520       | 1-249-423-11 | CARBON 3.3K 5%     | 1/4W F |
| R521       | 1-249-437-11 | CARBON 47K 5%      | 1/4W   |

| REF. NO. | PART NO      | DESCRIPTION        | REMARK |
|----------|--------------|--------------------|--------|
| R522     | 1-249-417-11 | CARBON 1K 5%       | 1/4W F |
| R523     | 1-249-426-11 | CARBON 5 6K 5%     | 1/4W F |
| R524     | 1-215-925-11 | METAL OXIDE 22K 5% | 3W F   |
| R525     | 1-216-373-11 | METAL OXIDE 2 2 5% | 2W F   |
| R526     | 1-216-478-11 | METAL OXIDE 390 5% | 3W F   |
| R528     | 1-216-475-11 | METAL OXIDE 120 5% | 3W F   |
| R528     | 1-216-477-11 | METAL OXIDE 270 5% | 3W F   |
| R529     | 1-215-912-11 | METAL OXIDE 150 5% | 3W F   |
| R529     | 1-216-477-11 | METAL OXIDE 270 5% | 3W F   |
| R530     | 1-216-475-11 | METAL OXIDE 120 5% | 3W F   |
| R530     | 1-216-477-11 | METAL OXIDE 270 5% | 3W F   |
| R531     | 1-215-912-11 | METAL OXIDE 150 5% | 3W F   |
| R531     | 1-216-477-11 | METAL OXIDE 270 5% | 3W F   |
| R532     | 1-215-442-00 | METAL 7 5K 1%      | 1/4W   |
| R533     | 1-215-443-00 | METAL 8 2K 1%      | 1/4W   |
| R534     | 1-215-437-00 | METAL 4 7K 1%      | 1/4W   |
| R1001    | 1-215-900-11 | METAL OXIDE 22K 5% | 2W F   |
| R1002    | 1-215-900-11 | METAL OXIDE 22K 5% | 2W F   |
| R1003    | 1-249-411-11 | CARBON 330 5%      | 1/4W   |
| R1004    | 1-249-434-11 | CARBON 27K 5%      | 1/4W   |
| R1005    | 1-249-436-11 | CARBON 39K 5%      | 1/4W   |
| R1006    | 1-249-434-11 | CARBON 27K 5%      | 1/4W   |
| R1007    | 1-249-425-11 | CARBON 4 7K 5%     | 1/4W   |
| R1008    | 1-247-807-31 | CARBON 100 5%      | 1/4W   |
| R1010    | 1-249-411-11 | CARBON 330 5%      | 1/4W   |
| R1011    | 1-249-425-11 | CARBON 4 7K 5%     | 1/4W   |
| R1012    | 1-249-425-11 | CARBON 4 7K 5%     | 1/4W   |
| R1013    | 1-247-807-31 | CARBON 100 5%      | 1/4W   |
| R1014    | 1-249-436-11 | CARBON 39K 5%      | 1/4W   |
| R1016    | 1-247-807-31 | CARBON 100 5%      | 1/4W   |
| R1017    | 1-249-417-11 | CARBON 1K 5%       | 1/4W   |
| R1018    | 1-215-432-00 | METAL 3K 1%        | 1/4W   |
| R1019    | 1-249-441-11 | CARBON 100K 5%     | 1/4W   |

<TRANSFORMER>

T501 1-437-078-00 TRANSFORMER, HORIZONTAL DRIVE

<TUNER>

TU1001  $\Delta$  8-598-047-11 TUNER (BTF-LA401)  
(KP-41T25/46S25/53S25)  
TU1002  $\Delta$  8-598-254-00 TUNER (BTF-WA402)

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**M**

| REF. NO     | PART NO        | DESCRIPTION                   | REMARK                 | REF NO       | PART NO      | DESCRIPTION                     | REMARK                 |
|-------------|----------------|-------------------------------|------------------------|--------------|--------------|---------------------------------|------------------------|
| CJ002       | 1-216-295-91   | CONDUCTOR, CHIP               |                        | IC004        | 8-759-328-12 | IC Z8622812PSC                  |                        |
| CJ003       | 1-216-295-91   | CONDUCTOR, CHIP               |                        | IC005        | 8-759-370-31 | IC ST24C01FB6                   |                        |
| <CONNECTOR> |                |                               |                        | IC006        | 8-759-403-44 | IC MN1280-S                     |                        |
| CN046       | * 1-564-512-11 | PLUG, CONNECTOR 9P            |                        | IC301        | 8-752-063-50 | IC CXA1477AS                    |                        |
| CN052       | * 1-564-507-11 | PLUG, CONNECTOR 4P            | (KP-41T25/46S25/53S25) | IC302        | 8-759-231-53 | IC TA7805S                      |                        |
| CN053       | * 1-564-507-11 | PLUG, CONNECTOR 4P            |                        | <COIL>       |              |                                 |                        |
| CN054       | 1-573-979-21   | CONNECTOR, BOARD TO BOARD 11P |                        | L003         | 1-410-470-11 | INDUCTOR 10UH                   |                        |
| CN304       | * 1-564-512-11 | PLUG, CONNECTOR 9P            |                        | L004         | 1-410-476-11 | INDUCTOR 33UH                   |                        |
| CN314       | * 1-564-509-11 | PLUG, CONNECTOR 6P (KP-41T25) |                        | L005         | 1-410-470-11 | INDUCTOR 10UH                   |                        |
| CN321       | 1-573-301-21   | CONNECTOR, BOARD TO BOARD 20P |                        | L006         | 1-410-470-11 | INDUCTOR 10UH                   |                        |
| CN322       | 1-573-301-21   | CONNECTOR, BOARD TO BOARD 20P |                        | L302         | 1-408-413-00 | INDUCTOR 22UH (KP-41T25)        |                        |
| CN351       | * 1-564-509-11 | PLUG, CONNECTOR 6P            |                        | L303         | 1-408-416-00 | INDUCTOR 39UH (KP-41T25)        |                        |
| CN355       | * 1-565-930-11 | CONNECTOR (RECEPTACLE) 30P    |                        | L304         | 1-410-468-11 | INDUCTOR 6 8UH                  |                        |
| CN356       | * 1-566-367-11 | CONNECTOR, HINGE (RECEPTACLE) |                        | <TRANSISTOR> |              |                                 |                        |
| CN357       | * 1-564-516-11 | PLUG, CONNECTOR 13P           |                        | Q001         | 8-729-216-22 | TRANSISTOR 2SA1162-G            |                        |
| CN358       | * 1-564-508-11 | PLUG, CONNECTOR 5P            |                        | Q002         | 8-729-422-27 | TRANSISTOR 2SD601A-Q            |                        |
| <DIODE>     |                |                               |                        | Q003         | 8-729-422-27 | TRANSISTOR 2SD601A-Q            |                        |
| D001        | 8-719-404-46   | DIODE MA110                   |                        | Q004         | 8-729-216-22 | TRANSISTOR 2SA1162-G            |                        |
| D002        | 8-719-404-46   | DIODE MA110                   |                        | Q005         | 8-729-422-27 | TRANSISTOR 2SD601A-Q            |                        |
| D003        | 8-719-404-46   | DIODE MA110                   |                        | Q006         | 8-729-422-27 | TRANSISTOR 2SD601A-Q            |                        |
| D004        | 8-719-109-89   | DIODE RD5 6ESB2               |                        | Q007         | 8-729-216-22 | TRANSISTOR 2SA1162-G            |                        |
| D005        | 8-719-109-89   | DIODE RD5 6ESB2               |                        | Q008         | 8-729-216-22 | TRANSISTOR 2SA1162-G            |                        |
| D006        | 8-719-109-89   | DIODE RD5 6ESB2               |                        | Q009         | 8-729-422-27 | TRANSISTOR 2SD601A-Q            |                        |
| D007        | 8-719-109-89   | DIODE RD5 6ESB2               |                        | Q010         | 8-729-216-22 | TRANSISTOR 2SA1162-G            |                        |
| D008        | 8-719-002-81   | DIODE 1T363                   |                        | Q011         | 8-729-216-22 | TRANSISTOR 2SA1162-G            |                        |
| D009        | 8-719-404-46   | DIODE MA110                   |                        | Q012         | 8-729-422-27 | TRANSISTOR 2SD601A-Q            |                        |
| D010        | 8-719-404-46   | DIODE MA110                   |                        | Q013         | 8-729-216-22 | TRANSISTOR 2SA1162-G            | (KP-41T25/46S25/53S25) |
| D011        | 8-719-404-46   | DIODE MA110                   |                        | Q014         | 8-729-216-22 | TRANSISTOR 2SA1162-G            | (KP-41T25/46S25/53S25) |
| D012        | 8-719-404-46   | DIODE MA110                   |                        | Q015         | 8-729-422-27 | TRANSISTOR 2SD601A-Q            | (KP-41T25/46S25/53S25) |
| D013        | 8-719-404-46   | DIODE MA110                   |                        | Q016         | 8-729-216-22 | TRANSISTOR 2SA1162-G            | (KP-41T25/46S25/53S25) |
| D014        | 8-719-404-46   | DIODE MA110                   |                        | Q017         | 8-729-422-27 | TRANSISTOR 2SD601A-Q            |                        |
| D015        | 8-719-404-46   | DIODE MA110                   |                        | Q018         | 8-729-216-22 | TRANSISTOR 2SA1162-G            |                        |
| D016        | 8-719-404-46   | DIODE MA110                   |                        | Q019         | 8-729-422-27 | TRANSISTOR 2SD601A-Q            |                        |
| D017        | 8-719-404-46   | DIODE MA110                   |                        | Q301         | 8-729-216-22 | TRANSISTOR 2SA1162-G            |                        |
| D018        | 8-719-404-46   | DIODE MA110                   |                        | Q302         | 8-729-216-22 | TRANSISTOR 2SA1162-G            |                        |
| D019        | 8-719-404-46   | DIODE MA110                   |                        | Q303         | 8-729-216-22 | TRANSISTOR 2SA1162-G            |                        |
| D020        | 8-719-105-91   | DIODE RD5 6M-B2               |                        | Q304         | 8-729-216-22 | TRANSISTOR 2SA1162-G            |                        |
| D305        | 8-719-923-60   | DIODE MTZJ-T-77-9 1A          |                        | Q305         | 8-729-422-27 | TRANSISTOR 2SD601A-Q            |                        |
| D307        | 8-719-923-60   | DIODE MTZJ-T-77-9 1A          |                        | Q307         | 8-729-422-27 | TRANSISTOR 2SD601A-Q            |                        |
| D308        | 8-719-110-22   | DIODE RD1IESB2                |                        | Q308         | 8-729-216-22 | TRANSISTOR 2SA1162-G            |                        |
| D309        | 8-719-109-84   | DIODE RD5 1ESB1               |                        | Q309         | 8-729-216-22 | TRANSISTOR 2SA1162-G            |                        |
| D310        | 8-719-914-44   | DIODE DAP202K                 |                        | Q310         | 8-729-422-27 | TRANSISTOR 2SD601A-Q (KP-41T25) |                        |
| D311        | 8-719-914-43   | DIODE DAN202K                 |                        | Q311         | 8-729-422-27 | TRANSISTOR 2SD601A-Q            |                        |
| D312        | 8-719-404-46   | DIODE MA110                   |                        | Q312         | 8-729-422-27 | TRANSISTOR 2SD601A-Q (KP-41T25) |                        |
| D313        | 8-719-404-46   | DIODE MA110                   |                        | Q313         | 8-729-422-27 | TRANSISTOR 2SD601A-Q            |                        |
| D314        | 8-719-404-46   | DIODE MA110                   |                        | Q314         | 8-729-422-27 | TRANSISTOR 2SD601A-Q (KP-41T25) |                        |
| D315        | 8-719-109-89   | DIODE RD5 6ESB2               |                        | Q315         | 8-729-422-27 | TRANSISTOR 2SD601A-Q (KP-41T25) |                        |
| D316        | 8-719-404-46   | DIODE MA110                   |                        | Q316         | 8-729-422-27 | TRANSISTOR 2SD601A-Q (KP-41T25) |                        |
| D317        | 8-719-110-22   | DIODE RD1IESB2                |                        | Q317         | 8-729-216-22 | TRANSISTOR 2SA1162-G (KP-41T25) |                        |
| D320        | 8-719-404-46   | DIODE MA110 (KP-41T25)        |                        | Q318         | 8-729-422-27 | TRANSISTOR 2SD601A-Q (KP-41T25) |                        |
| D321        | 8-719-404-46   | DIODE MA110 (KP-41T25)        |                        | Q319         | 8-729-422-27 | TRANSISTOR 2SD601A-Q (KP-41T25) |                        |
| D322        | 8-719-404-46   | DIODE MA110 (KP-41T25)        |                        | Q320         | 8-729-422-27 | TRANSISTOR 2SD601A-Q (KP-41T25) |                        |
| D323        | 8-719-404-46   | DIODE MA110 (KP-41T25)        |                        | Q321         | 8-729-422-27 | TRANSISTOR 2SD601A-Q (KP-41T25) |                        |
| D324        | 8-719-404-46   | DIODE MA110 (KP-41T25)        |                        | Q322         | 8-729-422-27 | TRANSISTOR 2SD601A-Q            |                        |
| D325        | 8-719-404-46   | DIODE MA110 (KP-41T25)        |                        | <RESISTOR>   |              |                                 |                        |
| D326        | 8-719-110-08   | DIODE RD8 2ESB2               |                        | R001         | 1-216-049-91 | METAL GLAZE 1K                  | 5% 1/10W               |
| D327        | 8-719-404-46   | DIODE MA110                   |                        | R002         | 1-216-049-91 | METAL GLAZE 1K                  | 5% 1/10W               |
| D328        | 8-719-991-33   | DIODE 1SS133T-77              |                        | R003         | 1-216-033-00 | METAL GLAZE 220                 | 5% 1/10W               |
| <IC>        |                |                               |                        | R004         | 1-216-033-00 | METAL GLAZE 220                 | 5% 1/10W               |
| IC001       | 8-759-112-06   | IC uPC78N05H                  |                        | R005         | 1-216-033-00 | METAL GLAZE 220                 | 5% 1/10W               |
| IC002       | 8-752-859-03   | IC CXP85332A-056S             |                        |              |              |                                 |                        |
| IC003       | 8-759-370-33   | IC ST24C04FB6                 |                        |              |              |                                 |                        |

| REF. NO | PART NO      | DESCRIPTION      | REMARK                          | REF. NO | PART NO      | DESCRIPTION      | REMARK                          |
|---------|--------------|------------------|---------------------------------|---------|--------------|------------------|---------------------------------|
| R006    | 1-216-033-00 | METAL GLAZE 220  | 5% 1/10W                        | R075    | 1-216-069-00 | METAL GLAZE 6 8K | 5% 1/10W                        |
| R007    | 1-216-033-00 | METAL GLAZE 220  | 5% 1/10W                        | R076    | 1-216-089-91 | METAL GLAZE 47K  | 5% 1/10W                        |
| R008    | 1-216-033-00 | METAL GLAZE 220  | 5% 1/10W                        | R077    | 1-216-097-91 | METAL GLAZE 100K | 5% 1/10W                        |
| R009    | 1-216-033-00 | METAL GLAZE 220  | 5% 1/10W                        | R078    | 1-216-097-91 | METAL GLAZE 100K | 5% 1/10W                        |
| R010    | 1-216-073-00 | METAL GLAZE 10K  | 5% 1/10W                        | R079    | 1-216-081-00 | METAL GLAZE 22K  | 5% 1/10W                        |
| R011    | 1-216-033-00 | METAL GLAZE 220  | 5% 1/10W                        | R080    | 1-216-023-00 | METAL GLAZE 82   | 5% 1/10W                        |
| R012    | 1-216-033-00 | METAL GLAZE 220  | 5% 1/10W                        | R081    | 1-216-041-00 | METAL GLAZE 470  | 5% 1/10W                        |
| R013    | 1-216-073-00 | METAL GLAZE 10K  | 5% 1/10W                        | R082    | 1-216-093-00 | METAL GLAZE 68K  | 5% 1/10W                        |
| R014    | 1-216-073-00 | METAL GLAZE 10K  | 5% 1/10W                        | R083    | 1-216-065-00 | METAL GLAZE 4 7K | 5% 1/10W                        |
| R015    | 1-216-033-00 | METAL GLAZE 220  | 5% 1/10W                        | R084    | 1-216-073-00 | METAL GLAZE 10K  | 5% 1/10W                        |
| R016    | 1-216-033-00 | METAL GLAZE 220  | 5% 1/10W                        | R085    | 1-216-089-91 | METAL GLAZE 47K  | 5% 1/10W                        |
| R017    | 1-216-073-00 | METAL GLAZE 10K  | (KP-41T25/46S25/53S25) 5% 1/10W | R086    | 1-216-097-91 | METAL GLAZE 100K | 5% 1/10W                        |
| R018    | 1-216-049-91 | METAL GLAZE 1K   | (KP-41T25/46S25/53S25) 5% 1/10W | R087    | 1-216-073-00 | METAL GLAZE 10K  | 5% 1/10W                        |
| R019    | 1-216-033-00 | METAL GLAZE 220  | 5% 1/10W                        | R088    | 1-216-089-91 | METAL GLAZE 47K  | 5% 1/10W                        |
| R020    | 1-216-033-00 | METAL GLAZE 220  | 5% 1/10W                        | R089    | 1-216-065-00 | METAL GLAZE 4.7K | 5% 1/10W                        |
| R021    | 1-216-033-00 | METAL GLAZE 220  | 5% 1/10W                        | R090    | 1-216-073-00 | METAL GLAZE 10K  | 5% 1/10W                        |
| R022    | 1-216-097-91 | METAL GLAZE 100K | 5% 1/10W                        | R091    | 1-216-081-00 | METAL GLAZE 22K  | (KP-41T25/46S25/53S25) 5% 1/10W |
| R023    | 1-216-121-91 | METAL GLAZE 1M   | 5% 1/10W                        | R092    | 1-216-081-00 | METAL GLAZE 22K  | (KP-41T25/46S25/53S25) 5% 1/10W |
| R024    | 1-216-065-00 | METAL GLAZE 4 7K | 5% 1/10W                        | R093    | 1-216-295-91 | CONDUCTOR, CHIP  | (KP-41T25/46S25/53S25)          |
| R025    | 1-216-073-00 | METAL GLAZE 10K  | 5% 1/10W                        | R094    | 1-216-081-00 | METAL GLAZE 22K  | 5% 1/10W                        |
| R026    | 1-216-073-00 | METAL GLAZE 10K  | 5% 1/10W                        | R095    | 1-216-081-00 | METAL GLAZE 22K  | (KP-41T25/46S25/53S25) 5% 1/10W |
| R027    | 1-216-089-91 | METAL GLAZE 47K  | 5% 1/10W                        | R096    | 1-216-081-00 | METAL GLAZE 22K  | (KP-41T25/46S25/53S25) 5% 1/10W |
| R028    | 1-216-065-00 | METAL GLAZE 4 7K | 5% 1/10W                        | R097    | 1-216-081-00 | METAL GLAZE 22K  | (KP-41T25/46S25/53S25) 5% 1/10W |
| R029    | 1-216-065-00 | METAL GLAZE 4 7K | 5% 1/10W                        | R098    | 1-216-081-00 | METAL GLAZE 22K  | (KP-41T25/46S25/53S25) 5% 1/10W |
| R031    | 1-216-065-00 | METAL GLAZE 4 7K | 5% 1/10W                        | R099    | 1-216-081-00 | METAL GLAZE 22K  | (KP-41T25/46S25/53S25) 5% 1/10W |
| R032    | 1-216-065-00 | METAL GLAZE 4 7K | 5% 1/10W                        | R100    | 1-216-295-91 | CONDUCTOR, CHIP  | (KP-41T25/46S25/53S25)          |
| R033    | 1-216-065-00 | METAL GLAZE 4.7K | 5% 1/10W                        | R101    | 1-216-065-00 | METAL GLAZE 4.7K | 5% 1/10W                        |
| R034    | 1-216-073-00 | METAL GLAZE 10K  | 5% 1/10W                        | R102    | 1-216-089-91 | METAL GLAZE 47K  | 5% 1/10W                        |
| R035    | 1-216-033-00 | METAL GLAZE 220  | 5% 1/10W                        | R103    | 1-216-045-00 | METAL GLAZE 680  | 5% 1/10W                        |
| R036    | 1-216-025-91 | METAL GLAZE 100  | 5% 1/10W                        | R104    | 1-216-033-00 | METAL GLAZE 220  | 5% 1/10W                        |
| R037    | 1-216-033-00 | METAL GLAZE 220  | 5% 1/10W                        | R106    | 1-216-033-00 | METAL GLAZE 220  | 5% 1/10W                        |
| R038    | 1-216-033-00 | METAL GLAZE 220  | 5% 1/10W                        | R107    | 1-216-033-00 | METAL GLAZE 220  | 5% 1/10W                        |
| R039    | 1-216-025-91 | METAL GLAZE 100  | 5% 1/10W                        | R108    | 1-216-033-00 | METAL GLAZE 220  | 5% 1/10W                        |
| R040    | 1-216-033-00 | METAL GLAZE 220  | 5% 1/10W                        | R109    | 1-216-033-00 | METAL GLAZE 220  | 5% 1/10W                        |
| R041    | 1-216-033-00 | METAL GLAZE 220  | 5% 1/10W                        | R110    | 1-216-033-00 | METAL GLAZE 220  | 5% 1/10W                        |
| R042    | 1-216-033-00 | METAL GLAZE 220  | 5% 1/10W                        | R111    | 1-216-049-91 | METAL GLAZE 1K   | 5% 1/10W                        |
| R043    | 1-216-073-00 | METAL GLAZE 10K  | 5% 1/10W                        | R112    | 1-216-089-91 | METAL GLAZE 47K  | 5% 1/10W                        |
| R044    | 1-216-089-91 | METAL GLAZE 47K  | 5% 1/10W                        | R113    | 1-216-089-91 | METAL GLAZE 47K  | 5% 1/10W                        |
| R045    | 1-216-033-00 | METAL GLAZE 220  | 5% 1/10W                        | R114    | 1-216-065-00 | METAL GLAZE 4 7K | 5% 1/10W                        |
| R046    | 1-216-033-00 | METAL GLAZE 220  | 5% 1/10W                        | R115    | 1-216-065-00 | METAL GLAZE 4 7K | 5% 1/10W                        |
| R047    | 1-216-033-00 | METAL GLAZE 220  | 5% 1/10W                        | R116    | 1-216-065-00 | METAL GLAZE 4 7K | 5% 1/10W                        |
| R048    | 1-216-073-00 | METAL GLAZE 10K  | 5% 1/10W                        | R117    | 1-216-047-91 | METAL GLAZE 820  | 5% 1/10W                        |
| R049    | 1-216-033-00 | METAL GLAZE 220  | 5% 1/10W                        | R118    | 1-216-047-91 | METAL GLAZE 820  | 5% 1/10W                        |
| R050    | 1-216-049-91 | METAL GLAZE 1K   | 5% 1/10W                        | R119    | 1-216-047-91 | METAL GLAZE 820  | 5% 1/10W                        |
| R051    | 1-216-049-91 | METAL GLAZE 1K   | 5% 1/10W                        | R120    | 1-216-033-00 | METAL GLAZE 220  | 5% 1/10W                        |
| R052    | 1-216-065-00 | METAL GLAZE 4 7K | 5% 1/10W                        | R300    | 1-216-025-91 | METAL GLAZE 100  | 5% 1/10W                        |
| R054    | 1-216-073-00 | METAL GLAZE 10K  | 5% 1/10W                        | R301    | 1-216-059-00 | METAL GLAZE 2 7K | 5% 1/10W                        |
| R055    | 1-216-049-91 | METAL GLAZE 1K   | 5% 1/10W                        | R302    | 1-216-049-91 | METAL GLAZE 1K   | 5% 1/10W                        |
| R056    | 1-216-049-91 | METAL GLAZE 1K   | 5% 1/10W                        | R303    | 1-216-049-91 | METAL GLAZE 1K   | 5% 1/10W                        |
| R057    | 1-216-065-00 | METAL GLAZE 4.7K | 5% 1/10W                        | R304    | 1-216-049-91 | METAL GLAZE 1K   | 5% 1/10W                        |
| R058    | 1-216-073-00 | METAL GLAZE 10K  | 5% 1/10W                        | R305    | 1-216-025-91 | METAL GLAZE 100  | 5% 1/10W                        |
| R059    | 1-216-295-91 | CONDUCTOR, CHIP  | 5% 1/10W                        | R306    | 1-216-025-91 | METAL GLAZE 100  | 5% 1/10W                        |
| R060    | 1-216-065-00 | METAL GLAZE 4 7K | 5% 1/10W                        | R307    | 1-216-057-00 | METAL GLAZE 2 2K | 5% 1/10W                        |
| R061    | 1-216-033-00 | METAL GLAZE 220  | (KP-41T25/46S25/53S25) 5% 1/10W | R308    | 1-216-073-00 | METAL GLAZE 10K  | 5% 1/10W                        |
| R062    | 1-216-085-00 | METAL GLAZE 33K  | 5% 1/10W                        | R309    | 1-216-025-91 | METAL GLAZE 100  | 5% 1/10W                        |
| R063    | 1-216-041-00 | METAL GLAZE 470  | 5% 1/10W                        | R310    | 1-216-081-00 | METAL GLAZE 22K  | 5% 1/10W                        |
| R064    | 1-216-065-00 | METAL GLAZE 4 7K | 5% 1/10W                        | R311    | 1-216-025-91 | METAL GLAZE 100  | 5% 1/10W                        |
| R065    | 1-216-097-91 | METAL GLAZE 100K | 5% 1/10W                        | R312    | 1-216-033-00 | METAL GLAZE 220  | 5% 1/10W                        |
| R066    | 1-216-049-91 | METAL GLAZE 1K   | 5% 1/10W                        | R313    | 1-216-081-00 | METAL GLAZE 22K  | 5% 1/10W                        |
| R067    | 1-216-049-91 | METAL GLAZE 1K   | 5% 1/10W                        | R314    | 1-216-033-00 | METAL GLAZE 220  | 5% 1/10W                        |
| R068    | 1-216-049-91 | METAL GLAZE 1K   | 5% 1/10W                        | R315    | 1-216-067-00 | METAL GLAZE 5 6K | 5% 1/10W                        |
| R069    | 1-216-073-00 | METAL GLAZE 10K  | 5% 1/10W                        | R317    | 1-216-033-00 | METAL GLAZE 220  | 5% 1/10W                        |
| R071    | 1-216-073-00 | METAL GLAZE 10K  | 5% 1/10W                        |         |              |                  |                                 |
| R072    | 1-216-041-00 | METAL GLAZE 470  | 5% 1/10W                        |         |              |                  |                                 |
| R073    | 1-216-049-91 | METAL GLAZE 1K   | 5% 1/10W                        |         |              |                  |                                 |
| R074    | 1-216-049-91 | METAL GLAZE 1K   | 5% 1/10W                        |         |              |                  |                                 |



Les composants identifiés par  
une trame et une marque   
sont critiques pour la sécurité  
Ne les remplacer que par une  
pièce portant le numéro spécifié

The components identified by  
shading and mark are critical  
for safety  
Replace only with part number  
specified

| REF NO. | PART NO      | DESCRIPTION      | REMARK                 |
|---------|--------------|------------------|------------------------|
| R318    | 1-216-071-00 | METAL GLAZE 8 2K | 5% 1/10W               |
| R319    | 1-216-190-00 | METAL GLAZE 470  | 5% 1/8W                |
| R320    | 1-216-065-00 | METAL GLAZE 4 7K | 5% 1/10W               |
| R321    | 1-216-190-00 | METAL GLAZE 470  | 5% 1/8W                |
| R323    | 1-216-295-91 | CONDUCTOR, CHIP  |                        |
| R324    | 1-216-025-91 | METAL GLAZE 100  | 5% 1/10W               |
| R325    | 1-216-043-91 | METAL GLAZE 560  | 5% 1/10W               |
| R326    | 1-216-077-00 | METAL GLAZE 15K  | 5% 1/10W               |
| R327    | 1-216-033-00 | METAL GLAZE 220  | 5% 1/10W               |
| R328    | 1-216-025-91 | METAL GLAZE 100  | 5% 1/10W               |
| R329    | 1-216-085-00 | METAL GLAZE 33K  | 5% 1/10W               |
| R330    | 1-216-039-00 | METAL GLAZE 390  | 5% 1/10W               |
| R331    | 1-216-059-00 | METAL GLAZE 2 7K | 5% 1/10W               |
| R332    | 1-216-049-91 | METAL GLAZE 1K   | 5% 1/10W               |
| R333    | 1-208-810-11 | METAL CHIP 15K   | 0 50% 1/10W            |
| R335    | 1-216-033-00 | METAL GLAZE 220  | 5% 1/10W               |
| R336    | 1-216-033-00 | METAL GLAZE 220  | 5% 1/10W               |
| R337    | 1-216-049-91 | METAL GLAZE 1K   | 5% 1/10W               |
| R338    | 1-216-049-91 | METAL GLAZE 1K   | 5% 1/10W               |
| R339    | 1-216-655-11 | METAL CHIP 1 5K  | 0 50% 1/10W            |
| R340    | 1-216-033-00 | METAL GLAZE 220  | 5% 1/10W               |
| R341    | 1-216-033-00 | METAL GLAZE 220  | 5% 1/10W               |
| R342    | 1-216-033-00 | METAL GLAZE 220  | 5% 1/10W               |
| R343    | 1-216-077-00 | METAL GLAZE 15K  | 5% 1/10W               |
| R344    | 1-216-073-00 | METAL GLAZE 10K  | 5% 1/10W               |
| R345    | 1-216-025-91 | METAL GLAZE 100  | 5% 1/10W               |
| R346    | 1-216-037-00 | METAL GLAZE 330  | 5% 1/10W               |
| R347    | 1-216-041-00 | METAL GLAZE 470  | 5% 1/10W               |
| R348    | 1-216-049-91 | METAL GLAZE 1K   | 5% 1/10W<br>(KP-41T25) |
| R349    | 1-216-033-00 | METAL GLAZE 220  | 5% 1/10W               |
| R350    | 1-216-033-00 | METAL GLAZE 220  | 5% 1/10W               |
| R351    | 1-216-033-00 | METAL GLAZE 220  | 5% 1/10W               |
| R352    | 1-216-057-00 | METAL GLAZE 2 2K | 5% 1/10W<br>(KP-41T25) |
| R353    | 1-216-069-00 | METAL GLAZE 6 8K | 5% 1/10W<br>(KP-41T25) |
| R354    | 1-216-053-00 | METAL GLAZE 1 5K | 5% 1/10W               |
| R355    | 1-216-071-00 | METAL GLAZE 8 2K | 5% 1/10W               |
| R356    | 1-216-031-00 | METAL GLAZE 180  | 5% 1/10W<br>(KP-41T25) |
| R357    | 1-216-031-00 | METAL GLAZE 180  | 5% 1/10W<br>(KP-41T25) |
| R358    | 1-216-049-91 | METAL GLAZE 1K   | 5% 1/10W               |
| R359    | 1-216-037-00 | METAL GLAZE 330  | 5% 1/10W<br>(KP-41T25) |
| R360    | 1-216-035-00 | METAL GLAZE 270  | 5% 1/10W               |
| R361    | 1-216-049-91 | METAL GLAZE 1K   | 5% 1/10W               |
| R362    | 1-216-035-00 | METAL GLAZE 270  | 5% 1/10W<br>(KP-41T25) |
| R363    | 1-216-049-91 | METAL GLAZE 1K   | 5% 1/10W<br>(KP-41T25) |
| R364    | 1-216-025-91 | METAL GLAZE 100  | 5% 1/10W<br>(KP-41T25) |
| R366    | 1-216-053-00 | METAL GLAZE 1 5K | 5% 1/10W<br>(KP-41T25) |
| R367    | 1-216-057-00 | METAL GLAZE 2 2K | 5% 1/10W<br>(KP-41T25) |
| R368    | 1-216-025-91 | METAL GLAZE 100  | 5% 1/10W<br>(KP-41T25) |
| R369    | 1-216-061-00 | METAL GLAZE 3 3K | 5% 1/10W<br>(KP-41T25) |
| R370    | 1-216-033-00 | METAL GLAZE 220  | 5% 1/10W               |
| R371    | 1-216-049-91 | METAL GLAZE 1K   | 5% 1/10W<br>(KP-41T25) |
| R372    | 1-216-051-00 | METAL GLAZE 1 2K | 5% 1/10W<br>(KP-41T25) |
| R373    | 1-216-035-00 | METAL GLAZE 270  | 5% 1/10W<br>(KP-41T25) |
| R374    | 1-216-085-00 | METAL GLAZE 33K  | 5% 1/10W<br>(KP-41T25) |

| REF NO                            | PART NO      | DESCRIPTION         | REMARK                 |
|-----------------------------------|--------------|---------------------|------------------------|
| R375                              | 1-216-075-00 | METAL GLAZE 12K     | 5% 1/10W<br>(KP-41T25) |
| R376                              | 1-216-093-00 | METAL GLAZE 68K     | 5% 1/10W<br>(KP-41T25) |
| R377                              | 1-216-043-91 | METAL GLAZE 560     | 5% 1/10W<br>(KP-41T25) |
| R378                              | 1-216-059-00 | METAL GLAZE 2 7K    | 5% 1/10W<br>(KP-41T25) |
| R379                              | 1-216-083-00 | METAL GLAZE 27K     | 5% 1/10W<br>(KP-41T25) |
| R380                              | 1-216-097-91 | METAL GLAZE 100K    | 5% 1/10W<br>(KP-41T25) |
| R381                              | 1-216-071-00 | METAL GLAZE 8 2K    | 5% 1/10W<br>(KP-41T25) |
| R382                              | 1-216-085-00 | METAL GLAZE 33K     | 5% 1/10W<br>(KP-41T25) |
| R383                              | 1-216-043-91 | METAL GLAZE 560     | 5% 1/10W<br>(KP-41T25) |
| R384                              | 1-216-053-00 | METAL GLAZE 1 5K    | 5% 1/10W<br>(KP-41T25) |
| R385                              | 1-216-085-00 | METAL GLAZE 33K     | 5% 1/10W<br>(KP-41T25) |
| R386                              | 1-216-121-91 | METAL GLAZE 1M      | 5% 1/10W<br>(KP-41T25) |
| R387                              | 1-216-049-91 | METAL GLAZE 1K      | 5% 1/10W<br>(KP-41T25) |
| R388                              | 1-216-025-91 | METAL GLAZE 100     | 5% 1/10W<br>(KP-41T25) |
| R389                              | 1-216-033-00 | METAL GLAZE 220     | 5% 1/10W<br>(KP-41T25) |
| R390                              | 1-216-033-00 | METAL GLAZE 220     | 5% 1/10W               |
| R391                              | 1-216-061-00 | METAL GLAZE 3 3K    | 5% 1/10W               |
| R392                              | 1-216-059-00 | METAL GLAZE 2 7K    | 5% 1/10W               |
| R393                              | 1-216-049-91 | METAL GLAZE 1K      | 5% 1/10W<br>(KP-41T25) |
| R394                              | 1-216-295-91 | CONDUCTOR, CHIP     |                        |
| <CRYSTAL>                         |              |                     |                        |
| X001                              | 1-579-917-11 | VIBRATOR, CRYSTAL   |                        |
| X301                              | 1-577-611-11 | OSCILATOR, CERAMIC  |                        |
| X302                              | 1-567-505-11 | OSCILLATOR, CRYSTAL |                        |
| *****                             |              |                     |                        |
| * A-1316-212-A G BOARD, COMPLETE  |              |                     |                        |
| *****                             |              |                     |                        |
| * 4-047-936-01 PLATE, SHIELD, PIT |              |                     |                        |
| <CAPACITOR>                       |              |                     |                        |
| C601                              | 1-136-311-51 | FILM                | 0.47MF 20% 125V        |
| C602                              | 1-113-920-91 | ELECT               | 0.0022MF 20% 250V      |
| C603                              | 1-113-920-91 | ELECT               | 0.0022MF 20% 250V      |
| C604                              | 1-125-692-11 | ELECT(BLOCK)        | 820MF 20% 200V         |
| C605                              | 1-125-692-11 | ELECT(BLOCK)        | 820MF 20% 200V         |
| C608                              | 1-164-645-11 | CERAMIC             | 1000PF 10% 500V        |
| C609                              | 1-164-645-11 | CERAMIC             | 1000PF 10% 500V        |
| C610                              | 1-136-173-00 | FILM                | 0.47MF 5% 50V          |
| C611                              | 1-136-171-00 | FILM                | 0.33MF 5% 50V          |
| C612                              | 1-136-173-00 | FILM                | 0.47MF 5% 50V          |
| C613                              | 1-136-171-00 | FILM                | 0.33MF 5% 50V          |
| C614                              | 1-164-735-11 | CAPACITOR           | 0.0015MF 10% 500V      |
| C615                              | 1-129-720-00 | FILM                | 0.033MF 5% 630V        |
| C616                              | 1-136-311-51 | FILM                | 0.47MF 20% 125V        |
| C618                              | 1-113-910-91 | ELECT               | 470PF 10% 250V         |
| C619                              | 1-113-910-91 | ELECT               | 470PF 10% 250V         |
| C651                              | 1-128-548-11 | ELECT               | 4700MF 20% 25V         |
| C652                              | 1-128-548-11 | ELECT               | 4700MF 20% 25V         |
| C653                              | 1-162-318-11 | CERAMIC             | 0.001MF 10% 500V       |



The components identified by shading and mark  $\Delta$  are critical for safety  
Replace only with part number specified

Les composants identifiés par une trame et une marque  $\Delta$  sont critiques pour la sécurité  
Ne les remplacer que par une pièce portant le numéro spécifié

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| REF. NO. | PART NO               | DESCRIPTION                  | REMARK | REF NO | PART NO               | DESCRIPTION                  | REMARK |
|----------|-----------------------|------------------------------|--------|--------|-----------------------|------------------------------|--------|
| C656     | 1-128-548-11          | ELECT 4700MF 20% 25V         |        | D671   | 8-719-991-33          | DIODE 1SS133T-77             |        |
| C657     | 1-126-926-11          | ELECT 1000MF 20% 10V         |        | D672   | 8-719-109-54          | DIODE RD2 2ESB2              |        |
| C658     | 1-126-768-11          | ELECT 2200MF 20% 16V         |        | D673   | 8-719-110-49          | DIODE RD18ESB2               |        |
| C659     | 1-126-944-11          | ELECT 3300MF 20% 25V         |        | D674   | 8-719-991-33          | DIODE 1SS133T-77             |        |
| C660     | 1-164-644-11          | CERAMIC 330PF 10% 500V       |        | D675   | 8-719-109-85          | DIODE RD5 1ESB2              |        |
| C661     | 1-123-024-21          | ELECT 33MF 160V              |        | D676   | 8-719-991-33          | DIODE 1SS133T-77             |        |
| C662     | 1-107-636-11          | ELECT 10MF 20% 160V          |        | D677   | 8-719-991-33          | DIODE 1SS133T-77             |        |
| C663     | 1-126-948-11          | ELECT 100MF 20% 35V          |        | D678   | 8-719-991-33          | DIODE 1SS133T-77             |        |
| C664     | 1-126-235-11          | ELECT 100MF 20% 6.3V         |        | D679   | 8-719-991-33          | DIODE 1SS133T-77             |        |
| C665     | 1-126-964-11          | ELECT 10MF 20% 50V           |        | D680   | 8-719-200-82          | DIODE 11ES2                  |        |
| C667     | 1-126-951-11          | ELECT 470MF 20% 35V          |        | D681   | 8-719-200-82          | DIODE 11ES2                  |        |
| C668     | 1-104-664-11          | ELECT 47MF 20% 25V           |        | D682   | 8-719-200-82          | DIODE 11ES2                  |        |
| C669     | 1-162-318-11          | CERAMIC 0.001MF 10% 500V     |        | D683   | 8-719-200-82          | DIODE 11ES2                  |        |
| C670     | 1-104-664-11          | ELECT 47MF 20% 25V           |        | D685   | 8-719-991-33          | DIODE 1SS133T-77             |        |
| C671     | 1-104-664-11          | ELECT 47MF 20% 25V           |        | D686   | 8-719-991-33          | DIODE 1SS133T-77             |        |
| C672     | 1-104-665-11          | ELECT 100MF 20% 25V          |        | D687   | 8-719-109-85          | DIODE RD5 1ESB2              |        |
| C673     | 1-104-664-11          | ELECT 47MF 20% 25V           |        | D688   | 8-719-991-33          | DIODE 1SS133T-77             |        |
| C674     | 1-104-664-11          | ELECT 47MF 20% 25V           |        | D689   | 8-719-991-33          | DIODE 1SS133T-77             |        |
| C675     | 1-104-664-11          | ELECT 47MF 20% 25V           |        | D690   | 8-719-109-89          | DIODE RD5 6ESB2              |        |
| C676     | 1-104-664-11          | ELECT 47MF 20% 25V           |        | D691   | 8-719-991-33          | DIODE 1SS133T-77             |        |
| C677     | 1-125-473-11          | ELECT(BLOCK) 1000MF 20% 160V |        | D693   | 8-719-991-33          | DIODE 1SS133T-77             |        |
| C678     | 1-107-635-11          | ELECT 4.7MF 20% 160V         |        |        |                       | <FUSE>                       |        |
| C679     | 1-164-644-11          | CERAMIC 330PF 10% 500V       |        | F601   | $\Delta$ 1-576-193-11 | FUSE 6.3A/125V               |        |
| C680     | 1-124-903-11          | ELECT 1MF 20% 50V            |        |        | 1-533-223-11          | CLIP, FUSE ; F601            |        |
| C682     | 1-124-903-11          | ELECT 1MF 20% 50V            |        |        |                       | <FERRITE BEAD>               |        |
| C683     | 1-107-635-11          | ELECT 4.7MF 20% 160V         |        | FB651  | 1-410-396-41          | FERRITE BEAD INDUCTOR 0.45UH |        |
| C690     | 1-126-934-11          | ELECT 220MF 20% 16V          |        | FB652  | 1-410-396-41          | FERRITE BEAD INDUCTOR 0.45UH |        |
| C691     | 1-126-964-11          | ELECT 10MF 20% 50V           |        |        |                       | <IC>                         |        |
|          |                       | <CONNECTOR>                  |        | IC651  | $\Delta$ 1-810-051-21 | POWER MODULE (DM-48)         |        |
| CN606    | 1-695-915-11          | TAB (CONTACT)                |        | IC652  | 8-759-279-76          | IC MCT7812CT                 |        |
| CN615    | 1-695-915-11          | TAB (CONTACT)                |        |        |                       | <COIL>                       |        |
| CN616    | * 1-564-507-11        | PLUG, CONNECTOR 4P           |        | L651   | 1-403-588-11          | CIL, CHOKE 22UH              |        |
| CN617    | * 1-580-843-11        | PIN, CONNECTOR (POWER)       |        | L652   | 1-403-588-11          | CIL, CHOKE 22UH              |        |
| CN624    | * 1-564-507-11        | PLUG, CONNECTOR 4P           |        | L653   | 1-412-519-11          | INDUCTOR 3.3UH               |        |
| CN625    | * 1-564-513-11        | PLUG, CONNECTOR 10P          |        | L654   | 1-403-588-11          | CIL, CHOKE 22UH              |        |
| CN626    | * 1-564-506-11        | PLUG, CONNECTOR 3P           |        | L655   | 1-403-588-11          | CIL, CHOKE 22UH              |        |
| CN653    | * 1-564-507-11        | PLUG, CONNECTOR 4P           |        | L656   | 1-412-519-11          | INDUCTOR 3.3UH               |        |
| CN681    | * 1-573-986-11        | PIN, CONNECTOR (PC BOARD) 5P |        | L657   | 1-403-588-11          | CIL, CHOKE 22UH              |        |
|          |                       | <DIODE>                      |        | L658   | 1-403-588-11          | CIL, CHOKE 22UH              |        |
| D601     | $\Delta$ 8-719-052-29 | DIODE LN4SB60-F              |        |        |                       | <TRANSISTOR>                 |        |
| D604     | 8-719-991-33          | DIODE 1SS133T-77             |        | Q601   | 8-729-019-49          | TRANSISTOR 2SC4834M          |        |
| D605     | 8-719-991-33          | DIODE 1SS133T-77             |        | Q602   | 8-729-019-49          | TRANSISTOR 2SC4834M          |        |
| D606     | 8-719-991-33          | DIODE 1SS133T-77             |        | Q651   | 8-729-820-82          | TRANSISTOR 2SA1208-S         |        |
| D607     | 8-719-991-33          | DIODE 1SS133T-77             |        | Q652   | 8-729-119-76          | TRANSISTOR 2SA1175-HFE       |        |
| D608     | 8-719-991-33          | DIODE 1SS133T-77             |        | Q653   | 8-729-230-45          | TRANSISTOR 2SC2458-YGR       |        |
| D609     | 8-719-991-33          | DIODE 1SS133T-77             |        | Q654   | 8-729-119-76          | TRANSISTOR 2SA1175-HFE       |        |
| D610     | 8-719-991-33          | DIODE 1SS133T-77             |        | Q655   | 8-729-230-45          | TRANSISTOR 2SC2458-YGR       |        |
| D611     | 8-719-991-33          | DIODE 1SS133T-77             |        | Q656   | 8-729-119-76          | TRANSISTOR 2SA1175-HFE       |        |
| D651     | 8-719-052-91          | DIODE D4SBS4-F               |        | Q657   | 8-729-119-78          | TRANSISTOR 2SC2785-HFE       |        |
| D655     | 8-719-052-92          | DIODE D10SBS4F               |        | Q658   | 8-729-119-76          | TRANSISTOR 2SA1175-HFE       |        |
| D656     | 8-719-022-97          | DIODE D2S4MF                 |        | Q659   | 8-729-119-76          | TRANSISTOR 2SA1175-HFE       |        |
| D657     | 8-719-022-97          | DIODE D2S4MF                 |        | Q660   | 8-729-119-76          | TRANSISTOR 2SA1175-HFE       |        |
| D658     | 8-719-022-97          | DIODE D2S4MF                 |        | Q661   | 8-729-119-76          | TRANSISTOR 2SA1175-HFE       |        |
| D659     | 8-719-022-97          | DIODE D2S4MF                 |        | Q662   | 8-729-119-76          | TRANSISTOR 2SA1175-HFE       |        |
| D660     | 8-719-052-86          | DIODE D2L40-TA               |        | Q663   | 8-729-119-76          | TRANSISTOR 2SA1175-HFE       |        |
| D661     | 8-719-052-86          | DIODE D2L40-TA               |        |        |                       | <RESISTOR>                   |        |
| D662     | 8-719-052-31          | DIODE D1NL40-TR2             |        | R602   | $\Delta$ 1-219-236-91 | SOLID 2.2M 20% 1/2W          |        |
| D663     | 8-719-052-31          | DIODE D1NL40-TR2             |        |        |                       |                              |        |
| D664     | 8-719-510-26          | DIODE D1NL20-TA              |        |        |                       |                              |        |
| D665     | 8-719-991-33          | DIODE 1SS133T-77             |        |        |                       |                              |        |
| D666     | 8-719-110-58          | DIODE RD22ESB3               |        |        |                       |                              |        |
| D667     | 8-719-921-80          | DIODE MTZJ-11B               |        |        |                       |                              |        |
| D669     | 8-719-991-33          | DIODE 1SS133T-77             |        |        |                       |                              |        |
| D670     | 8-719-110-41          | DIODE RD15ESB2               |        |        |                       |                              |        |



Les composants identifiés par une trame et une marque  $\Delta$  sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifique.

The components identified by shading and mark  $\Delta$  are critical for safety. Replace only with part number specified.

| REF. NO. | PART NO               | DESCRIPTION     | REMARK     |
|----------|-----------------------|-----------------|------------|
| R603     | $\Delta$ 1-205-997-11 | WIREWOUND 2.2   | 5% 10W     |
| R604     | $\Delta$ 1-247-891-91 | CARBON 330K     | 5% 1/4W    |
| R605     | $\Delta$ 1-247-891-91 | CARBON 330K     | 5% 1/4W    |
| R606     | $\Delta$ 1-202-933-61 | FUSIBLE 0.1     | 10% 1/2W F |
| R607     | 1-247-891-00          | CARBON 330K     | 5% 1/4W    |
| R608     | 1-247-891-00          | CARBON 330K     | 5% 1/4W    |
| R609     | 1-216-369-00          | METAL OXIDE 1   | 5% 2W F    |
| R610     | 1-247-891-00          | CARBON 330K     | 5% 1/4W    |
| R611     | 1-247-891-00          | CARBON 330K     | 5% 1/4W    |
| R612     | 1-216-369-00          | METAL OXIDE 1   | 5% 2W F    |
| R613     | 1-247-791-91          | CARBON 22       | 5% 1/4W    |
| R614     | 1-247-791-91          | CARBON 22       | 5% 1/4W    |
| R615     | 1-247-791-91          | CARBON 22       | 5% 1/4W    |
| R616     | 1-247-791-91          | CARBON 22       | 5% 1/4W    |
| R631     | 1-247-863-91          | CARBON 22K      | 5% 1/4W    |
| R632     | 1-247-807-31          | CARBON 100      | 5% 1/4W    |
| R633     | 1-247-807-31          | CARBON 100      | 5% 1/4W    |
| R634     | 1-249-417-11          | CARBON 1K       | 5% 1/4W    |
| R635     | 1-249-425-11          | CARBON 4 7K     | 5% 1/4W    |
| R636     | 1-249-413-11          | CARBON 470      | 5% 1/4W    |
| R651     | 1-216-370-11          | METAL OXIDE 1 2 | 5% 2W F    |
| R653     | 1-249-418-11          | CARBON 1 2K     | 5% 1/4W F  |
| R654     | 1-215-473-00          | METAL 150K      | 1% 1/4W    |
| R655     | 1-249-441-11          | CARBON 100K     | 5% 1/4W    |
| R656     | 1-216-369-00          | METAL OXIDE 1   | 5% 2W F    |
| R657     | 1-249-429-11          | CARBON 10K      | 5% 1/4W    |
| R658     | 1-247-883-00          | CARBON 150K     | 5% 1/4W    |
| R659     | 1-249-417-11          | CARBON 1K       | 5% 1/4W F  |
| R660     | 1-249-417-11          | CARBON 1K       | 5% 1/4W    |
| R661     | 1-215-471-00          | METAL 120K      | 1% 1/4W    |
| R662     | $\Delta$ 1-215-452-91 | METAL 20K       | 1% 1/4W    |
| R663     | 1-215-421-00          | METAL 1K        | 1% 1/4W    |
| R664     | 1-249-429-11          | CARBON 10K      | 5% 1/4W    |
| R665     | 1-249-425-11          | CARBON 4 7K     | 5% 1/4W    |
| R666     | 1-249-429-11          | CARBON 10K      | 5% 1/4W    |
| R667     | 1-249-429-11          | CARBON 10K      | 5% 1/4W    |
| R668     | 1-215-487-00          | METAL 560K      | 1% 1/4W    |
| R670     | 1-247-895-91          | CARBON 470K     | 5% 1/4W    |
| R671     | 1-249-429-11          | CARBON 10K      | 5% 1/4W    |
| R672     | 1-247-807-31          | CARBON 100      | 5% 1/4W    |
| R673     | 1-249-423-11          | CARBON 3 3K     | 5% 1/4W    |
| R674     | 1-249-413-11          | CARBON 470      | 5% 1/4W    |
| R675     | 1-249-429-11          | CARBON 10K      | 5% 1/4W    |
| R676     | 1-249-421-11          | CARBON 2 2K     | 5% 1/4W    |
| R677     | 1-249-417-11          | CARBON 1K       | 5% 1/4W    |
| R678     | 1-249-423-11          | CARBON 3.3K     | 5% 1/4W    |
| R679     | 1-249-423-11          | CARBON 3 3K     | 5% 1/4W    |
| R680     | 1-249-413-11          | CARBON 470      | 5% 1/4W    |
| R681     | 1-249-425-11          | CARBON 4 7K     | 5% 1/4W    |
| R682     | 1-249-403-11          | CARBON 68       | 5% 1/4W    |
| R683     | 1-249-417-11          | CARBON 1K       | 5% 1/4W    |
| R684     | 1-249-417-11          | CARBON 1K       | 5% 1/4W    |
| R685     | 1-247-863-91          | CARBON 22K      | 5% 1/4W    |
| R686     | 1-249-429-11          | CARBON 10K      | 5% 1/4W    |
| R687     | 1-249-423-11          | CARBON 3 3K     | 5% 1/4W    |
| R688     | 1-249-423-11          | CARBON 3 3K     | 5% 1/4W    |
| R689     | 1-249-429-11          | CARBON 10K      | 5% 1/4W    |
| R690     | 1-247-863-91          | CARBON 22K      | 5% 1/4W    |
| R691     | 1-249-417-11          | CARBON 1K       | 5% 1/4W    |
| R693     | 1-249-425-11          | CARBON 4 7K     | 5% 1/4W    |
| R694     | 1-249-425-11          | CARBON 4 7K     | 5% 1/4W    |
| R695     | 1-249-429-11          | CARBON 10K      | 5% 1/4W    |
| R697     | 1-249-413-11          | CARBON 470      | 5% 1/4W    |
| R698     | 1-249-429-11          | CARBON 10K      | 5% 1/4W    |
| R699     | 1-249-417-11          | CARBON 1K       | 5% 1/4W    |

| REF NO                            | PART NO               | DESCRIPTION                   | REMARK   |
|-----------------------------------|-----------------------|-------------------------------|----------|
| <RELAY>                           |                       |                               |          |
| RY601                             | $\Delta$ 1-755-032-11 | RELAY                         |          |
| RY602                             | $\Delta$ 1-755-032-11 | RELAY                         |          |
| <TRANSFORMER>                     |                       |                               |          |
| T601                              | $\Delta$ 1-427-850-11 | TRANSFORMER, LINE FILTER      |          |
| T602                              | $\Delta$ 1-427-863-11 | TRANSFORMER, CONVERTER (PIT)  |          |
| T603                              | $\Delta$ 1-427-865-11 | TRANSFORMER, POWER            |          |
| T604                              | $\Delta$ 1-427-864-12 | TRANSFORMER, CONVERTER (PRT)  |          |
| T605                              | $\Delta$ 1-427-850-11 | TRANSFORMER, LINE FILTER      |          |
| *****                             |                       |                               |          |
| * A-1331-498-A CR BOARD, COMPLETE |                       |                               |          |
| *****                             |                       |                               |          |
| <CAPACITOR>                       |                       |                               |          |
| C701                              | 1-104-664-11          | ELECT 47MF                    | 20% 25V  |
| C702                              | 1-107-662-11          | ELECT 22MF                    | 20% 250V |
| C703                              | 1-161-754-00          | CERAMIC 0 001MF               | 10% 2KV  |
| C704                              | 1-126-768-11          | ELECT 2200MF                  | 20% 16V  |
| C705                              | 1-102-050-00          | CERAMIC 0 01MF                | 10% 500V |
| C706                              | 1-102-953-00          | CERAMIC 18PF                  | 5% 50V   |
| C707                              | 1-102-129-00          | CERAMIC 0 01MF                | 10% 50V  |
| C708                              | 1-104-664-11          | ELECT 47MF                    | 20% 25V  |
| C709                              | 1-107-651-11          | ELECT 4 7MF                   | 20% 250V |
| C710                              | 1-102-157-00          | CERAMIC 560PF                 | 10% 500V |
| C714                              | 1-162-115-00          | CERAMIC 330PF                 | 10% 2KV  |
| C715                              | 1-101-005-00          | CERAMIC 0 022MF               | 50V      |
| C716                              | 1-102-050-00          | CERAMIC 0 01MF                | 500V     |
| <CONNECTOR>                       |                       |                               |          |
| CN701                             | * 1-508-784-00        | PIN, CONNECTOR (5mm PITCH) 1P |          |
| CN702                             | * 1-564-510-11        | PLUG, CONNECTOR 7P            |          |
| CN703                             | * 1-564-512-11        | PLUG, CONNECTOR 9P            |          |
| CN704                             | * 1-564-512-11        | PLUG, CONNECTOR 9P            |          |
| CN705                             | * 1-564-511-11        | PLUG, CONNECTOR 8P            |          |
| CN706                             | 1-695-915-11          | TAB (CONTACT)                 |          |
| CN708                             | $\Delta$ 1-251-179-11 | SOCKET, PICTURE TUBE          |          |
| CN709                             | * 1-564-506-11        | PLUG, CONNECTOR 3P            |          |
| <DIODE>                           |                       |                               |          |
| D701                              | 8-719-991-33          | DIODE 1SS133T-77              |          |
| D702                              | 8-719-991-33          | DIODE 1SS133T-77              |          |
| D703                              | 8-719-991-33          | DIODE 1SS133T-77              |          |
| D704                              | 8-719-921-86          | DIODE MTZJ-13                 |          |
| D705                              | 8-719-210-21          | DIODE 11EQS04                 |          |
| D706                              | 8-719-991-33          | DIODE 1SS133T-77              |          |
| D707                              | 8-719-921-86          | DIODE MTZJ-13                 |          |
| D708                              | 8-719-901-83          | DIODE 1SS83                   |          |
| D710                              | 8-719-109-89          | DIODE RD5 6ESB2               |          |
| D711                              | 8-719-991-33          | DIODE 1SS133T-77              |          |
| D713                              | 8-719-510-48          | DIODE D1N20R                  |          |
| D716                              | 8-719-921-86          | DIODE MTZJ-13                 |          |
| D717                              | 8-719-921-86          | DIODE MTZJ-13                 |          |
| <IC>                              |                       |                               |          |
| IC701                             | 8-759-346-42          | IC TDA6101Q/N3                |          |
| <COIL>                            |                       |                               |          |
| L701                              | 1-408-429-00          | INDUCTOR 470UH                |          |

The components identified by  
 shading and mark  $\Delta$  are criti-  
 cal for safety  
 Replace only with part number  
 specified.

Les composants identifiés par  
 une trame et une marque  $\Delta$   
 sont critiques pour la sécurité.  
 Ne les remplacer que par une  
 pièce portant le numéro spécifié

**CR**

**CG**

**CB**

| REF NO.        | PART NO               | DESCRIPTION                   | REMARK  |     |      |   |
|----------------|-----------------------|-------------------------------|---------|-----|------|---|
| <NEON LAMP>    |                       |                               |         |     |      |   |
| NL701          | 1-519-108-99          | LAMP, NEON                    |         |     |      |   |
| <TRANSISTOR>   |                       |                               |         |     |      |   |
| Q701           | 8-729-119-76          | TRANSISTOR 2SA1175-HFE        |         |     |      |   |
| <RESISTOR>     |                       |                               |         |     |      |   |
| R701           | 1-215-411-00          | METAL                         | 390     | 1%  | 1/4W |   |
| R702           | 1-215-414-00          | METAL                         | 510     | 1%  | 1/4W |   |
| R704           | 1-202-847-00          | SOLID                         | 560K    | 20% | 1/2W |   |
| R706           | 1-249-407-11          | CARBON                        | 150     | 5%  | 1/4W |   |
| R707           | 1-215-423-00          | METAL                         | 1 2K    | 1%  | 1/4W |   |
| R708           | 1-202-883-11          | SOLID                         | 680K    | 20% | 1/2W |   |
| R709           | 1-215-437-00          | METAL                         | 4 7K    | 1%  | 1/4W |   |
| R710           | 1-215-427-00          | METAL                         | 1 8K    | 1%  | 1/4W |   |
| R711           | 1-215-427-00          | METAL                         | 1 8K    | 1%  | 1/4W |   |
| R712           | 1-215-903-11          | METAL OXIDE                   | 68K     | 5%  | 2W   | F |
| R713           | 1-202-818-00          | SOLID                         | 1K      | 20% | 1/2W |   |
| R714           | 1-202-818-00          | SOLID                         | 1K      | 20% | 1/2W |   |
| R715           | 1-249-436-11          | CARBON                        | 39K     | 5%  | 1/4W |   |
| R716           | 1-249-437-11          | CARBON                        | 47K     | 5%  | 1/4W |   |
| R718           | 1-249-417-11          | CARBON                        | 1K      | 5%  | 1/4W |   |
| R719           | 1-247-807-31          | CARBON                        | 100     | 5%  | 1/4W |   |
| R720           | 1-249-437-11          | CARBON                        | 47K     | 5%  | 1/4W |   |
| R721           | 1-202-549-00          | SOLID                         | 100     | 20% | 1/2W |   |
| R722           | 1-202-549-00          | SOLID                         | 100     | 20% | 1/2W |   |
| <SPARK GAP>    |                       |                               |         |     |      |   |
| SG701          | 1-519-422-11          | GAP, SPARK                    |         |     |      |   |
| SG702          | 1-519-422-11          | GAP, SPARK                    |         |     |      |   |
| SG703          | 1-519-422-11          | GAP, SPARK                    |         |     |      |   |
| *****          |                       |                               |         |     |      |   |
| * A-1331-499-A |                       | CG BOARD, COMPLETE            | *****   |     |      |   |
| <CAPACITOR>    |                       |                               |         |     |      |   |
| C731           | 1-161-754-00          | CERAMIC                       | 0 001MF | 10% | 2KV  |   |
| C732           | 1-107-662-11          | ELECT                         | 22MF    | 20% | 250V |   |
| C733           | 1-102-050-00          | CERAMIC                       | 0 01MF  |     | 500V |   |
| C736           | 1-126-964-11          | ELECT                         | 10MF    | 20% | 50V  |   |
| C738           | 1-107-651-11          | ELECT                         | 4 7MF   | 20% | 250V |   |
| C739           | 1-102-965-00          | CERAMIC                       | 39PF    | 5%  | 50V  |   |
| C740           | 1-126-964-11          | ELECT                         | 10MF    | 20% | 50V  |   |
| C741           | 1-102-157-00          | CERAMIC                       | 560PF   | 10% | 500V |   |
| C742           | 1-162-115-00          | CERAMIC                       | 330PF   | 10% | 2KV  |   |
| C743           | 1-101-005-00          | CERAMIC                       | 0 022MF |     | 50V  |   |
| C744           | 1-102-050-00          | CERAMIC                       | 0 01MF  |     | 500V |   |
| <CONNECTOR>    |                       |                               |         |     |      |   |
| CN731          | * 1-508-784-00        | PIN, CONNECTOR (5mm PITCH) 1P |         |     |      |   |
| CN732          | * 1-564-512-11        | PLUG, CONNECTOR 9P            |         |     |      |   |
| CN733          | * 1-564-512-11        | PLUG, CONNECTOR 9P            |         |     |      |   |
| CN734          | * 1-564-511-11        | PLUG, CONNECTOR 8P            |         |     |      |   |
| CN735          | * 1-564-509-11        | PLUG, CONNECTOR 6P            |         |     |      |   |
| CN736          | 1-695-915-11          | TAB (CONTACT)                 |         |     |      |   |
| CN738          | $\Delta$ 1-251-179-11 | SOCKET, PICTURE TUBE          |         |     |      |   |

| REF NO                            | PART NO        | DESCRIPTION                   | REMARK  |     |      |   |
|-----------------------------------|----------------|-------------------------------|---------|-----|------|---|
| <DIODE>                           |                |                               |         |     |      |   |
| D731                              | 8-719-921-86   | DIODE MTZJ-13                 |         |     |      |   |
| D732                              | 8-719-901-83   | DIODE 1SS83                   |         |     |      |   |
| D736                              | 8-719-510-48   | DIODE D1N20R                  |         |     |      |   |
| D737                              | 8-719-921-86   | DIODE MTZJ-13                 |         |     |      |   |
| <IC>                              |                |                               |         |     |      |   |
| IC731                             | 8-759-346-42   | IC TDA6101Q/N3                |         |     |      |   |
| <COIL>                            |                |                               |         |     |      |   |
| L731                              | 1-408-429-00   | INDUCTOR 470UH                |         |     |      |   |
| <NEON LAMP>                       |                |                               |         |     |      |   |
| NL731                             | 1-519-108-99   | LAMP, NEON                    |         |     |      |   |
| <RESISTOR>                        |                |                               |         |     |      |   |
| R731                              | 1-202-847-00   | SOLID                         | 560K    | 20% | 1/2W |   |
| R733                              | 1-202-883-11   | SOLID                         | 680K    | 20% | 1/2W |   |
| R734                              | 1-202-818-00   | SOLID                         | 1K      | 20% | 1/2W |   |
| R735                              | 1-249-407-11   | CARBON                        | 150     | 5%  | 1/4W |   |
| R736                              | 1-249-441-11   | CARBON                        | 100K    | 5%  | 1/4W |   |
| R737                              | 1-202-818-00   | SOLID                         | 1K      | 20% | 1/2W |   |
| R738                              | 1-202-549-00   | SOLID                         | 100     | 20% | 1/2W |   |
| R739                              | 1-215-420-00   | METAL                         | 910     | 1%  | 1/4W |   |
| R740                              | 1-215-427-00   | METAL                         | 1 8K    | 1%  | 1/4W |   |
| R741                              | 1-249-437-11   | CARBON                        | 47K     | 5%  | 1/4W |   |
| R742                              | 1-215-903-11   | METAL OXIDE                   | 68K     | 5%  | 2W   | F |
| <SPARK GAP>                       |                |                               |         |     |      |   |
| SG731                             | 1-519-422-11   | GAP, SPARK                    |         |     |      |   |
| SG732                             | 1-519-422-11   | GAP, SPARK                    |         |     |      |   |
| SG733                             | 1-519-422-11   | GAP, SPARK                    |         |     |      |   |
| *****                             |                |                               |         |     |      |   |
| * A-1331-500-A CB BOARD, COMPLETE |                |                               |         |     |      |   |
| *****                             |                |                               |         |     |      |   |
| <CAPACITOR>                       |                |                               |         |     |      |   |
| C761                              | 1-161-754-00   | CERAMIC                       | 0 001MF | 10% | 2KV  |   |
| C762                              | 1-107-662-11   | ELECT                         | 22MF    | 20% | 250V |   |
| C763                              | 1-102-050-00   | CERAMIC                       | 0.01MF  |     | 500V |   |
| C766                              | 1-107-651-11   | ELECT                         | 4 7MF   | 20% | 250V |   |
| C769                              | 1-102-965-00   | CERAMIC                       | 39PF    | 5%  | 50V  |   |
| C770                              | 1-126-964-11   | ELECT                         | 10MF    | 20% | 50V  |   |
| C771                              | 1-102-157-00   | CERAMIC                       | 560PF   | 10% | 500V |   |
| C772                              | 1-162-115-00   | CERAMIC                       | 330PF   | 10% | 2KV  |   |
| C773                              | 1-101-005-00   | CERAMIC                       | 0 022MF |     | 50V  |   |
| C774                              | 1-102-050-00   | CERAMIC                       | 0 01MF  |     | 500V |   |
| <CONNECTOR>                       |                |                               |         |     |      |   |
| CN761                             | * 1-508-784-00 | PIN, CONNECTOR (5mm PITCH) 1P |         |     |      |   |
| CN762                             | * 1-564-512-11 | PLUG, CONNECTOR 9P            |         |     |      |   |
| CN763                             | * 1-564-509-11 | PLUG, CONNECTOR 6P            |         |     |      |   |
| CN766                             | 1-695-915-11   | TAB (CONTACT)                 |         |     |      |   |
| CN768                             | Δ 1-251-179-11 | SOCKET, PICTURE TUBE          |         |     |      |   |
| <DIODE>                           |                |                               |         |     |      |   |
| D761                              | 8-719-921-86   | DIODE MTZJ-13                 |         |     |      |   |



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| REF NO                                    | PART NO        | DESCRIPTION        | REMARK   |     |       |   | REF NO      | PART NO        | DESCRIPTION                  | REMARK   |     |      |  |
|-------------------------------------------|----------------|--------------------|----------|-----|-------|---|-------------|----------------|------------------------------|----------|-----|------|--|
| D762                                      | 8-719-901-83   | DIODE 1SS83        |          |     |       |   | C825        | 1-162-318-11   | CERAMIC                      | 0 001MF  | 10% | 500V |  |
| D763                                      | 8-719-991-33   | DIODE 1SS133T-77   |          |     |       |   | C826        | 1-130-467-00   | FILM                         | 470PF    | 5%  | 50V  |  |
| D764                                      | 8-719-921-86   | DIODE MTZJ-13      |          |     |       |   | C827        | 1-107-651-11   | ELECT                        | 4 7MF    | 20% | 250V |  |
| D765                                      | 8-719-921-86   | DIODE MTZJ-13      |          |     |       |   | C828        | 1-111-036-11   | ELECT                        | 470MF    | 20% | 16V  |  |
| D768                                      | 8-719-510-48   | DIODE D1N20R       |          |     |       |   | C830        | 1-137-420-11   | FILM                         | 0 047MF  | 10% | 100V |  |
| D769                                      | 8-719-921-86   | DIODE MTZJ-13      |          |     |       |   | C831        | 1-126-934-11   | ELECT                        | 220MF    | 20% | 16V  |  |
| <IC>                                      |                |                    |          |     |       |   | C832        | 1-126-967-11   | ELECT                        | 47MF     | 20% | 50V  |  |
| IC761                                     | 8-759-346-42   | IC TDA6101Q/N3     |          |     |       |   | C901        | 1-163-251-11   | CERAMIC CHIP                 | 100PF    | 5%  | 50V  |  |
| <COIL>                                    |                |                    |          |     |       |   | C902        | 1-137-370-11   | FILM                         | 0 01MF   | 5%  | 50V  |  |
| L761                                      | 1-408-429-00   | INDUCTOR 470UH     |          |     |       |   | C903        | 1-137-431-11   | FILM                         | 560PF    | 5%  | 50V  |  |
| <NEON LAMP>                               |                |                    |          |     |       |   | C904        | 1-137-358-11   | FILM                         | 0 0001MF | 5%  | 50V  |  |
| NL760                                     | 1-519-108-99   | LAMP, NEON         |          |     |       |   | C905        | 1-104-665-11   | ELECT                        | 100MF    | 20% | 25V  |  |
| <RESISTOR>                                |                |                    |          |     |       |   | C906        | 1-137-370-11   | FILM                         | 0 01MF   | 5%  | 50V  |  |
| R761                                      | 1-202-847-00   | SOLID              | 560K     | 20% | 1/2W  |   | C907        | 1-104-665-11   | ELECT                        | 100MF    | 20% | 25V  |  |
| R763                                      | 1-202-883-11   | SOLID              | 680K     | 20% | 1/2W  |   | C908        | 1-137-361-11   | FILM                         | 330PF    | 5%  | 50V  |  |
| R764                                      | 1-202-818-00   | SOLID              | 1K       | 20% | 1/2W  |   | C909        | 1-124-903-11   | ELECT                        | 1MF      | 20% | 50V  |  |
| R767                                      | 1-202-818-00   | SOLID              | 1K       | 20% | 1/2W  |   | C911        | 1-163-251-11   | CERAMIC CHIP                 | 100PF    | 5%  | 50V  |  |
| R768                                      | 1-202-549-00   | SOLID              | 100      | 20% | 1/2W  |   | C912        | 1-124-903-11   | ELECT                        | 1MF      | 20% | 50V  |  |
| R769                                      | 1-215-421-00   | METAL              | 1K       | 1%  | 1/4W  |   | C913        | 1-124-903-11   | ELECT                        | 1MF      | 20% | 50V  |  |
| R770                                      | 1-249-426-11   | CARBON             | 5 6K     | 5%  | 1/4W  |   | C915        | 1-163-239-11   | CERAMIC CHIP                 | 33PF     | 5%  | 50V  |  |
| R771                                      | 1-215-427-00   | METAL              | 1 8K     | 1%  | 1/4W  |   | C916        | 1-126-963-11   | ELECT                        | 4 7MF    | 20% | 50V  |  |
| R773                                      | 1-215-903-11   | METAL OXIDE        | 68K      | 5%  | 2W    | F | C917        | 1-126-964-11   | ELECT                        | 10MF     | 20% | 50V  |  |
| R774                                      | 1-249-407-11   | CARBON             | 150      | 5%  | 1/4W  |   | C918        | 1-137-364-11   | FILM                         | 0.001MF  | 5%  | 50V  |  |
| R775                                      | 1-202-549-00   | SOLID              | 100      | 20% | 1/2W  |   | C919        | 1-126-964-11   | ELECT                        | 10MF     | 20% | 50V  |  |
| <SPARK GAP>                               |                |                    |          |     |       |   | C920        | 1-124-902-00   | ELECT                        | 0 47MF   | 20% | 50V  |  |
| SG761                                     | 1-519-422-11   | GAP, SPARK         |          |     |       |   | C921        | 1-126-964-11   | ELECT                        | 10MF     | 20% | 50V  |  |
| SG762                                     | 1-519-422-11   | GAP, SPARK         |          |     |       |   | C923        | 1-126-964-11   | ELECT                        | 10MF     | 20% | 50V  |  |
| SG763                                     | 1-519-422-11   | GAP, SPARK         |          |     |       |   | C924        | 1-126-935-11   | ELECT                        | 470MF    | 20% | 16V  |  |
| *****                                     |                |                    |          |     |       |   | C925        | 1-137-372-11   | FILM                         | 0 022MF  | 5%  | 50V  |  |
| * A-1341-885-A E BOARD, COMPLETE          |                |                    |          |     |       |   | C926        | 1-104-665-11   | ELECT                        | 100MF    | 20% | 25V  |  |
| *****                                     |                |                    |          |     |       |   | C927        | 1-137-364-11   | FILM                         | 0 001MF  | 5%  | 50V  |  |
| 4-382-854-11 SCREW (M3X10), P, SW (+)     |                |                    |          |     |       |   | C929        | 1-137-416-11   | FILM                         | 0 01MF   | 10% | 100V |  |
| 7-322-065-19 RUBBER, SILICON RTV (KE490W) |                |                    |          |     |       |   | C930        | 1-137-364-11   | FILM                         | 0 001MF  | 5%  | 50V  |  |
| <CAPACITOR>                               |                |                    |          |     |       |   | C931        | 1-126-967-11   | ELECT                        | 47MF     | 20% | 50V  |  |
| C801                                      | 1-110-626-11   | ELECT              | 330MF    | 20% | 160V  |   | C932        | 1-124-903-11   | ELECT                        | 1MF      | 20% | 50V  |  |
| C802                                      | 1-163-251-11   | CERAMIC CHIP       | 100PF    | 5%  | 50V   |   | C934        | 1-137-370-11   | FILM                         | 0 01MF   | 5%  | 50V  |  |
| C803                                      | 1-110-626-11   | ELECT              | 330MF    | 20% | 160V  |   | C935        | 1-137-399-11   | FILM                         | 0 1MF    | 10% | 100V |  |
| C805                                      | 1-136-173-00   | FILM               | 0 47MF   | 5%  | 50V   |   | C936        | 1-126-964-11   | ELECT                        | 10MF     | 20% | 50V  |  |
| C806                                      | 1-102-030-00   | CERAMIC            | 330PF    | 10% | 500V  |   | C937        | 1-126-964-11   | ELECT                        | 10MF     | 20% | 50V  |  |
| C807                                      | 1-106-387-00   | MYLAR              | 0 068MF  | 10% | 200V  |   | C938        | 1-126-935-11   | ELECT                        | 470MF    | 20% | 16V  |  |
| C808                                      | 1-107-636-11   | ELECT              | 10MF     | 20% | 160V  |   | C939        | 1-126-964-11   | ELECT                        | 10MF     | 20% | 50V  |  |
| C809                                      | 1-104-664-11   | ELECT              | 47MF     | 20% | 25V   |   | C940        | 1-104-664-11   | ELECT                        | 47MF     | 20% | 25V  |  |
| C810                                      | 1-130-481-00   | FILM               | 0 0068MF | 5%  | 50V   |   | C941        | 1-126-964-11   | ELECT                        | 10MF     | 20% | 50V  |  |
| C811                                      | 1-137-475-11   | FILM               | 2 2MF    | 10% | 250V  |   | C942        | 1-104-664-11   | ELECT                        | 47MF     | 20% | 25V  |  |
| C812                                      | 1-126-965-11   | ELECT              | 22MF     | 20% | 50V   |   | C943        | 1-126-965-11   | ELECT                        | 22MF     | 20% | 50V  |  |
| C813                                      | 1-162-318-11   | CERAMIC            | 0 001MF  | 10% | 500V  |   | C944        | 1-126-964-11   | ELECT                        | 10MF     | 20% | 50V  |  |
| C814                                      | 1-126-968-11   | ELECT              | 100MF    | 20% | 50V   |   | C945        | 1-126-964-11   | ELECT                        | 10MF     | 20% | 50V  |  |
| C815                                      | 1-162-114-00   | CERAMIC            | 0.0047MF |     | 2KV   |   | C946        | 1-124-925-11   | ELECT                        | 2 2MF    | 20% | 50V  |  |
| C818                                      | 1-109-833-11   | FILM               | 0.0145MF | 3%  | 2.5KV |   | C947        | 1-104-665-11   | ELECT                        | 100MF    | 20% | 25V  |  |
| C819                                      | 1-130-489-00   | FILM               | 0 033MF  | 5%  | 50V   |   | C948        | 1-104-665-11   | ELECT                        | 100MF    | 20% | 25V  |  |
| C820                                      | 1-124-902-00   | ELECT              | 0 47MF   | 20% | 50V   |   | C949        | 1-126-964-11   | ELECT                        | 10MF     | 20% | 50V  |  |
| C823                                      | 1-136-601-11   | FILM               | 0 01MF   | 5%  | 630V  |   | C950        | 1-126-964-11   | ELECT                        | 10MF     | 20% | 50V  |  |
| C824                                      | 1-126-964-11   | ELECT              | 10MF     | 20% | 50V   |   | C951        | 1-109-889-11   | ELECT                        | 1MF      | 20% | 50V  |  |
| <CHIP CONDUCTOR>                          |                |                    |          |     |       |   | C955        | 1-126-964-11   | ELECT                        | 10MF     | 20% | 50V  |  |
| CJ901                                     | 1-216-295-91   | CONDUCTOR, CHIP    |          |     |       |   | C980        | 1-137-368-11   | FILM                         | 0 0047MF | 5%  | 50V  |  |
| CJ902                                     | 1-216-295-91   | CONDUCTOR, CHIP    |          |     |       |   | <CONNECTOR> |                |                              |          |     |      |  |
| CJ903                                     | 1-216-295-91   | CONDUCTOR, CHIP    |          |     |       |   | CN802       | * 1-564-510-11 | PLUG, CONNECTOR 7P           |          |     |      |  |
| CJ904                                     | 1-216-295-91   | CONDUCTOR, CHIP    |          |     |       |   | CN805       | 1-695-915-11   | TAB (CONTACT)                |          |     |      |  |
| <CONNECTOR>                               |                |                    |          |     |       |   | CN827       | * 1-573-963-11 | PIN, CONNECTOR (PC BOARD) 3P |          |     |      |  |
| CN802                                     | * 1-564-510-11 | PLUG, CONNECTOR 7P |          |     |       |   | CN851       | * 1-564-509-11 | PLUG, CONNECTOR 6P           |          |     |      |  |

The components identified by shading and mark  $\Delta$  are critical for safety.  
Replace only with part number specified.

Les composants identifiés par une trame et une marque  $\Delta$  sont critiques pour la sécurité.  
Ne les remplacer que par une pièce portant le numéro spécifié.

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**E**

| REF. NO | PART NO        | DESCRIPTION                  | REMARK | REF. NO       | PART NO      | DESCRIPTION              | REMARK      |
|---------|----------------|------------------------------|--------|---------------|--------------|--------------------------|-------------|
| CN881   | * 1-573-986-11 | PIN, CONNECTOR (PC BOARD) 5P |        | L803          | 1-422-613-11 | COIL, AIR CORE           |             |
| CN882   | * 1-691-135-11 | PIN, CONNECTOR (PC BOARD) 4P |        | L804          | 1-411-286-11 | COIL, CHOKE 220UH        |             |
| CN884   | * 1-573-964-11 | PIN, CONNECTOR (PC BOARD) 6P |        | L901          | 1-408-416-00 | INDUCTOR 39UH            |             |
| CN885   | * 1-506-371-00 | PIN, CONNECTOR 2P            |        | L902          | 1-408-416-00 | INDUCTOR 39UH            |             |
| CN886   | * 1-506-371-00 | PIN, CONNECTOR 2P            |        |               |              | <NEON LAMP>              |             |
| CN904   | * 1-564-507-11 | PLUG, CONNECTOR 4P           |        | NL802         | 1-519-108-99 | LAMP, NEON               |             |
|         |                | <DIODE>                      |        |               |              | <TRANSISTOR>             |             |
| D801    | 8-719-109-85   | DIODE RD5 1ESB2              |        | Q801          | 8-729-119-80 | TRANSISTOR 2SC2688-LK    |             |
| D802    | 8-719-404-46   | DIODE MA110                  |        | Q802          | 8-729-119-80 | TRANSISTOR 2SC2688-LK    |             |
| D803    | 8-719-971-20   | DIODE ERC38-06               |        | Q803          | 8-729-122-12 | TRANSISTOR 2SA1221-L     |             |
| D804    | 8-719-908-03   | DIODE GP08D                  |        | Q806          | 8-729-805-07 | TRANSISTOR 2SD1887-CA    |             |
| D805    | 8-719-945-80   | DIODE ERC06-15S              |        | Q807          | 8-729-422-27 | TRANSISTOR 2SD601A-Q     |             |
| D806    | 8-719-991-33   | DIODE ISS133T-77             |        | Q808          | 8-729-024-30 | TRANSISTOR IRFI640LF     |             |
| D807    | 8-719-945-80   | DIODE ERC06-15S              |        | Q809          | 8-729-823-81 | TRANSISTOR 2SC4632LS-CB7 |             |
| D808    | 8-719-500-71   | DIODE D8LC40                 |        | Q810          | 8-729-231-55 | TRANSISTOR 2SC2878-AB    |             |
| D809    | 8-719-991-33   | DIODE ISS133T-77             |        | Q811          | 8-729-823-81 | TRANSISTOR 2SC4632LS-CB7 |             |
| D810    | 8-719-945-80   | DIODE ERC06-15S              |        | Q813          | 8-729-216-22 | TRANSISTOR 2SA1162-G     |             |
| D811    | 8-719-979-85   | DIODE EGP20G-PKG23           |        | Q901          | 8-729-422-27 | TRANSISTOR 2SD601A-Q     |             |
| D812    | 8-719-404-46   | DIODE MA110                  |        | Q902          | 8-729-140-93 | TRANSISTOR 2SB733-34     |             |
| D814    | 8-719-920-67   | DIODE ERC91-02               |        | Q903          | 8-729-140-96 | TRANSISTOR 2SD774-34     |             |
| D816    | 8-719-404-46   | DIODE MA110                  |        | Q904          | 8-729-422-27 | TRANSISTOR 2SD601A-Q     |             |
| D817    | 8-719-404-46   | DIODE MA110                  |        | Q905          | 8-729-422-27 | TRANSISTOR 2SD601A-Q     |             |
| D818    | 8-719-404-46   | DIODE MA110                  |        | Q906          | 8-729-422-27 | TRANSISTOR 2SD601A-Q     |             |
| D819    | 8-719-105-82   | DIODE RD5.1M-B2              |        | Q907          | 8-729-231-55 | TRANSISTOR 2SC2878-AB    |             |
| D901    | 8-719-404-46   | DIODE MA110                  |        | Q908          | 8-729-422-27 | TRANSISTOR 2SD601A-Q     |             |
| D902    | 8-719-404-46   | DIODE MA110                  |        | Q909          | 8-729-422-27 | TRANSISTOR 2SD601A-Q     |             |
| D904    | 8-719-404-46   | DIODE MA110                  |        | Q910          | 8-729-422-27 | TRANSISTOR 2SD601A-Q     |             |
| D905    | 8-719-404-46   | DIODE MA110                  |        | Q911          | 8-729-422-27 | TRANSISTOR 2SD601A-Q     |             |
| D907    | 8-719-404-46   | DIODE MA110                  |        | Q912          | 8-729-216-22 | TRANSISTOR 2SA1162-G     |             |
| D908    | 8-719-105-82   | DIODE RD5.1M-B2              |        | Q913          | 8-729-029-86 | TRANSISTOR DTC124ESA     |             |
| D909    | 8-719-302-43   | DIODE EL1Z                   |        | Q914          | 8-729-422-27 | TRANSISTOR 2SD601A-Q     |             |
| D911    | 8-719-105-82   | DIODE RD5.1M-B2              |        | Q915          | 8-729-422-27 | TRANSISTOR 2SD601A-Q     |             |
| D912    | 8-719-105-82   | DIODE RD5.1M-B2              |        |               |              | <RESISTOR>               |             |
| D913    | 8-719-404-46   | DIODE MA110                  |        | R800          | 1-216-637-11 | METAL CHIP 270           | 0.50% 1/10W |
| D914    | 8-719-404-46   | DIODE MA110                  |        | R801          | 1-216-033-00 | METAL GLAZE 220          | 5% 1/10W    |
| D915    | 8-719-404-46   | DIODE MA110                  |        | R802          | 1-249-421-11 | CARBON 2 2K              | 5% 1/4W     |
| D916    | 8-719-105-57   | DIODE RD3 9M-B1              |        | R804          | 1-249-425-11 | CARBON 4 7K              | 5% 1/4W F   |
| D917    | 8-719-404-46   | DIODE MA110                  |        | R805          | 1-216-435-11 | METAL OXIDE 2 7K         | 5% 1W F     |
| D918    | 8-719-404-46   | DIODE MA110                  |        | R806          | 1-249-431-11 | CARBON 15K               | 5% 1/4W F   |
| D919    | 8-719-106-81   | DIODE RD13M-B3               |        | R807          | 1-260-325-11 | CARBON 560               | 5% 1/2W     |
| D920    | 8-759-157-40   | IC uPC574J                   |        | $\Delta$ R808 | $\Delta$     | CARBON                   | 1/4W        |
| D921    | 8-719-106-81   | DIODE RD13M-B3               |        | $\Delta$ R809 | $\Delta$     | CARBON                   | 1/4W        |
| D922    | 8-719-404-46   | DIODE MA110                  |        | R810          | 1-249-427-11 | CARBON 6 8K              | 5% 1/4W F   |
| D923    | 8-719-404-46   | DIODE MA110                  |        | R811          | 1-216-097-91 | METAL GLAZE 100K         | 5% 1/10W    |
| D924    | 8-719-404-46   | DIODE MA110                  |        | R812          | 1-216-395-00 | METAL OXIDE 3 3          | 5% 3W F     |
| D925    | 8-719-028-00   | DIODE MA3033-L               |        | R813          | 1-216-484-00 | METAL OXIDE 3 9K         | 5% 3W F     |
| D926    | 8-719-404-46   | DIODE MA110                  |        | R814          | 1-215-919-11 | METAL OXIDE 2 2K         | 5% 3W F     |
| D927    | 8-719-401-32   | DIODE MA3047M-TX             |        | R816          | 1-216-051-00 | METAL GLAZE 1 2K         | 5% 1/10W    |
|         |                | <FERRITE BEAD>               |        | R817          | 1-216-395-00 | METAL OXIDE 3 3          | 5% 3W F     |
| FB001   | 1-410-396-41   | FERRITE BEAD INDUCTOR 0 45UH |        | R818          | 1-249-405-11 | CARBON 100               | 5% 1/4W F   |
|         |                | <IC>                         |        | R819          | 1-216-089-91 | METAL GLAZE 47K          | 5% 1/10W    |
| IC901   | 8-759-133-90   | IC uPC339C                   |        | R820          | 1-215-905-11 | METAL OXIDE 10           | 5% 3W F     |
| IC902   | 8-759-133-90   | IC uPC339C                   |        | R821          | 1-216-073-00 | METAL GLAZE 10K          | 5% 1/10W    |
| IC903   | 8-759-711-28   | IC NJM2058D                  |        | R822          | 1-215-928-11 | METAL OXIDE 68K          | 5% 3W F     |
| IC904   | 8-759-634-51   | IC M5218AP                   |        | R823          | 1-216-041-00 | METAL GLAZE 470          | 5% 1/10W    |
| IC905   | 8-759-929-65   | IC LM7912CT                  |        | R825          | 1-215-928-11 | METAL OXIDE 68K          | 5% 3W F     |
| IC906   | 8-759-279-76   | IC MCT7812CT                 |        | R826          | 1-216-033-00 | METAL GLAZE 220          | 5% 1/10W    |
|         |                | <COIL>                       |        | R830          | 1-215-928-11 | METAL OXIDE 68K          | 5% 3W F     |
| L801    | 1-406-665-11   | COIL, CHOKE 100UH            |        | R831          | 1-215-919-11 | METAL OXIDE 2.2K         | 5% 3W F     |
| L802    | 1-406-665-11   | COIL, CHOKE 100UH            |        | R832          | 1-216-049-91 | METAL GLAZE 1K           | 5% 1/10W    |
|         |                |                              |        | R836          | 1-202-818-00 | SOLID 1K                 | 20% 1/2W    |
|         |                |                              |        | R837          | 1-215-870-11 | METAL OXIDE 1.5K         | 5% 1W F     |
|         |                |                              |        | R838          | 1-247-807-31 | CARBON 100               | 5% 1/4W     |



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| REF NO | PART NO      | DESCRIPTION                        | REMARK      |
|--------|--------------|------------------------------------|-------------|
| R839   | 1-249-429-11 | CARBON 10K                         | 5% 1/4W F   |
| R841   | 1-216-491-11 | METAL OXIDE 56K                    | 5% 3W F     |
| R843   | 1-202-549-00 | SOLID 100                          | 20% 1/2W    |
| R844   | 1-216-491-11 | METAL OXIDE 56K                    | 5% 3W F     |
| R846   | 1-202-838-00 | SOLID 100K                         | 20% 1/2W    |
| R847   | 1-216-073-00 | METAL GLAZE 10K                    | 5% 1/10W    |
| R849   | 1-247-863-91 | CARBON 22K                         | 5% 1/4W     |
| R850   | 1-216-081-00 | METAL GLAZE 22K                    | 5% 1/10W    |
| R851   | 1-216-667-11 | METAL CHIP 47K                     | 0.50% 1/10W |
| R852   | 1-208-806-11 | METAL CHIP 10K                     | 0.50% 1/10W |
| R854   | 1-249-447-11 | CARBON 1                           | 5% 1/4W F   |
| R855   | 1-208-822-11 | METAL CHIP 47K                     | 0.50% 1/10W |
| R856   | 1-208-822-11 | METAL CHIP 47K                     | 0.50% 1/10W |
| R857   | 1-216-699-11 | METAL CHIP 100K                    | 0.50% 1/10W |
| R858   | 1-208-810-11 | METAL CHIP 15K                     | 0.50% 1/10W |
| R865   | 1-216-350-11 | METAL OXIDE 12                     | 5% 1W F     |
| R866   | 1-532-781-11 | FUSE, MICRO (SECONDARY) 3 15A/125V |             |
| R883   | 1-216-091-00 | METAL GLAZE 56K                    | 5% 1/10W    |
| R888   | 1-216-067-00 | METAL GLAZE 56K                    | 5% 1/10W    |
| R901   | 1-216-065-00 | METAL GLAZE 47K                    | 5% 1/10W    |
| R902   | 1-216-065-00 | METAL GLAZE 47K                    | 5% 1/10W    |
| R903   | 1-216-085-00 | METAL GLAZE 33K                    | 5% 1/10W    |
| R904   | 1-216-057-00 | METAL GLAZE 22K                    | 5% 1/10W    |
| R905   | 1-247-739-11 | CARBON 100                         | 5% 1/2W F   |
| R906   | 1-247-739-11 | CARBON 100                         | 5% 1/2W F   |
| R907   | 1-216-091-00 | METAL GLAZE 56K                    | 5% 1/10W    |
| R908   | 1-216-085-00 | METAL GLAZE 33K                    | 5% 1/10W    |
| R909   | 1-216-113-00 | METAL GLAZE 470K                   | 5% 1/10W    |
| R910   | 1-216-059-00 | METAL GLAZE 27K                    | 5% 1/10W    |
| R911   | 1-216-059-00 | METAL GLAZE 27K                    | 5% 1/10W    |
| R912   | 1-216-073-00 | METAL GLAZE 10K                    | 5% 1/10W    |
| R913   | 1-216-077-00 | METAL GLAZE 15K                    | 5% 1/10W    |
| R914   | 1-216-049-91 | METAL GLAZE 1K                     | 5% 1/10W    |
| R915   | 1-216-091-00 | METAL GLAZE 56K                    | 5% 1/10W    |
| R916   | 1-216-065-00 | METAL GLAZE 47K                    | 5% 1/10W    |
| R917   | 1-216-057-00 | METAL GLAZE 22K                    | 5% 1/10W    |
| R918   | 1-216-073-00 | METAL GLAZE 10K                    | 5% 1/10W    |
| R919   | 1-216-077-00 | METAL GLAZE 15K                    | 5% 1/10W    |
| R920   | 1-216-113-00 | METAL GLAZE 470K                   | 5% 1/10W    |
| R921   | 1-216-059-00 | METAL GLAZE 27K                    | 5% 1/10W    |
| R922   | 1-216-073-00 | METAL GLAZE 10K                    | 5% 1/10W    |
| R923   | 1-216-077-00 | METAL GLAZE 15K                    | 5% 1/10W    |
| R924   | 1-216-067-00 | METAL GLAZE 56K                    | 5% 1/10W    |
| R926   | 1-216-049-91 | METAL GLAZE 1K                     | 5% 1/10W    |
| R927   | 1-249-377-11 | CARBON 0.47                        | 5% 1/4W F   |
| R928   | 1-216-067-00 | METAL GLAZE 56K                    | 5% 1/10W    |
| R929   | 1-216-041-00 | METAL GLAZE 470                    | 5% 1/10W    |
| R930   | 1-216-081-00 | METAL GLAZE 22K                    | 5% 1/10W    |
| R931   | 1-216-059-00 | METAL GLAZE 27K                    | 5% 1/10W    |
| R932   | 1-216-059-00 | METAL GLAZE 27K                    | 5% 1/10W    |
| R933   | 1-216-081-00 | METAL GLAZE 22K                    | 5% 1/10W    |
| R934   | 1-216-085-00 | METAL GLAZE 33K                    | 5% 1/10W    |
| R935   | 1-216-049-91 | METAL GLAZE 1K                     | 5% 1/10W    |
| R936   | 1-216-065-00 | METAL GLAZE 47K                    | 5% 1/10W    |
| R937   | 1-216-049-91 | METAL GLAZE 1K                     | 5% 1/10W    |
| R938   | 1-208-810-11 | METAL CHIP 15K                     | 0.50% 1/10W |
| R939   | 1-216-073-00 | METAL GLAZE 10K                    | 5% 1/10W    |
| R940   | 1-216-083-00 | METAL GLAZE 27K                    | 5% 1/10W    |
| R941   | 1-216-091-00 | METAL GLAZE 56K                    | 5% 1/10W    |
| R942   | 1-216-049-91 | METAL GLAZE 1K                     | 5% 1/10W    |
| R943   | 1-249-377-11 | CARBON 0.47                        | 5% 1/4W F   |
| R944   | 1-216-689-11 | METAL GLAZE 39K                    | 5% 1/10W    |
| R945   | 1-216-077-00 | METAL GLAZE 15K                    | 5% 1/10W    |
| R946   | 1-216-073-00 | METAL GLAZE 10K                    | 5% 1/10W    |
| R947   | 1-216-025-91 | METAL GLAZE 100                    | 5% 1/10W    |
| R948   | 1-216-051-00 | METAL GLAZE 12K                    | 5% 1/10W    |
| R950   | 1-216-049-91 | METAL GLAZE 1K                     | 5% 1/10W    |
| R952   | 1-216-049-91 | METAL GLAZE 1K                     | 5% 1/10W    |
| R954   | 1-214-777-00 | METAL 100K                         | 1% 1/4W     |

| REF NO | PART NO      | DESCRIPTION                              | REMARK      |
|--------|--------------|------------------------------------------|-------------|
| R955   | 1-214-769-00 | METAL 47K                                | 1% 1/4W     |
| R956   | 1-208-806-11 | METAL CHIP 10K                           | 0.50% 1/10W |
| R957   | 1-218-754-11 | METAL CHIP 120K                          | 0.50% 1/10W |
| R958   | 1-218-756-11 | METAL CHIP 150K                          | 0.50% 1/10W |
| R959   | 1-214-757-00 | METAL 15K                                | 1% 1/4W     |
| R960   | 1-216-077-00 | METAL GLAZE 15K                          | 5% 1/10W    |
| R962   | 1-208-806-11 | METAL CHIP 10K                           | 0.50% 1/10W |
| R963   | 1-214-749-00 | METAL 6.8K                               | 1% 1/4W     |
| R964   | 1-214-757-00 | METAL 15K                                | 1% 1/4W     |
| R965   | 1-216-097-91 | METAL GLAZE 100K                         | 5% 1/10W    |
| R966   | 1-214-757-00 | METAL 15K                                | 1% 1/4W     |
| R967   | 1-216-025-91 | METAL GLAZE 100                          | 5% 1/10W    |
| R968   | 1-214-751-00 | METAL 8.2K                               | 1% 1/4W     |
| R969   | 1-214-731-00 | METAL 1.2K                               | 1% 1/4W     |
| R970   | 1-214-757-00 | METAL 15K                                | 1% 1/4W     |
| R971   | 1-216-121-91 | METAL GLAZE 1M                           | 5% 1/10W    |
| R972   | 1-216-699-11 | METAL CHIP 100K                          | 0.50% 1/10W |
| R973   | 1-216-081-00 | METAL GLAZE 22K                          | 5% 1/10W    |
| R974   | 1-216-699-11 | METAL CHIP 100K                          | 0.50% 1/10W |
| R975   | 1-216-043-91 | METAL GLAZE 560                          | 5% 1/10W    |
| R976   | 1-216-041-00 | METAL GLAZE 470                          | 5% 1/10W    |
| R977   | 1-216-075-00 | METAL GLAZE 12K                          | 5% 1/10W    |
| R978   | 1-216-057-00 | METAL GLAZE 2.2K                         | 5% 1/10W    |
| R979   | 1-216-075-00 | METAL GLAZE 12K                          | 5% 1/10W    |
| R980   | 1-216-081-00 | METAL GLAZE 22K                          | 5% 1/10W    |
| R981   | 1-216-073-00 | METAL GLAZE 10K                          | 5% 1/10W    |
| R982   | 1-216-671-11 | METAL CHIP 6.8K                          | 0.50% 1/10W |
| R983   | 1-216-083-00 | METAL GLAZE 27K                          | 5% 1/10W    |
| R984   | 1-208-812-11 | METAL CHIP 18K                           | 0.50% 1/10W |
| R985   | 1-216-049-91 | METAL GLAZE 1K                           | 5% 1/10W    |
| R986   | 1-216-059-00 | METAL GLAZE 2.7K                         | 5% 1/10W    |
| R987   | 1-216-059-00 | METAL GLAZE 2.7K                         | 5% 1/10W    |
| R988   | 1-216-462-00 | METAL OXIDE 8.2K                         | 5% 2W F     |
| R989   | 1-215-897-11 | METAL OXIDE 6.8K                         | 5% 2W F     |
| R990   | 1-208-801-11 | METAL CHIP 6.2K                          | 0.50% 1/10W |
| R991   | 1-249-431-11 | CARBON 15K                               | 5% 1/4W     |
| R992   | 1-249-431-11 | CARBON 15K                               | 5% 1/4W     |
| R993   | 1-247-807-31 | CARBON 100                               | 5% 1/4W     |
| R994   | 1-216-677-11 | METAL CHIP 12K                           | 0.50% 1/10W |
| R995   | 1-208-814-11 | METAL CHIP 22K                           | 0.50% 1/10W |
| R996   | 1-216-065-00 | METAL GLAZE 47K                          | 5% 1/10W    |
| R997   | 1-216-073-00 | METAL GLAZE 10K                          | 5% 1/10W    |
| R998   | 1-216-051-00 | METAL GLAZE 1.2K                         | 5% 1/10W    |
| R999   | 1-216-051-00 | METAL GLAZE 1.2K                         | 5% 1/10W    |
| SG801  | 1-519-422-11 | GAP, SPARK                               |             |
| T801   | 1-453-189-11 | TRANSFORMER ASSY, FLYBACK (NX-2631//A4S) |             |
| T802   | 1-437-209-11 | TRANSFORMER, HORIZONTAL DRIVE            |             |
| T803   | 1-427-980-11 | TRANSFORMER, FERRITE (LOT)               |             |

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\* A-1346-296-A D BOARD, COMPLETE  
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4-382-854-11 SCREW (M3X10), P, SW (+)  
 7-682-652-09 SCREW +PSW 3X16

<CAPACITOR>

|       |              |                     |     |     |
|-------|--------------|---------------------|-----|-----|
| C1502 | 1-126-943-11 | ELECT 2200MF        | 20% | 25V |
| C1503 | 1-164-232-11 | CERAMIC CHIP 0.01MF | 10% | 50V |

D

| REF. NO. | PART NO.     | DESCRIPTION  | REMARK      | REF. NO. | PART NO.     | DESCRIPTION          | REMARK          |
|----------|--------------|--------------|-------------|----------|--------------|----------------------|-----------------|
| C1504    | 1-126-943-11 | ELECT        | 2200MF 20%  | C1834    | 1-163-809-11 | CERAMIC CHIP 0 047MF | 10% 25V         |
| C1505    | 1-136-177-00 | FILM         | 1MF 5%      | C1835    | 1-163-809-11 | CERAMIC CHIP 0 047MF | 10% 25V         |
| C1506    | 1-102-228-00 | CERAMIC      | 470PF 10%   | C1836    | 1-163-809-11 | CERAMIC CHIP 0 047MF | 10% 25V         |
| C1507    | 1-164-232-11 | CERAMIC CHIP | 0 01MF 10%  | C1837    | 1-164-489-11 | CERAMIC CHIP 0 22MF  | 10% 16V         |
| C1508    | 1-163-251-11 | CERAMIC CHIP | 100PF 5%    | C1838    | 1-126-968-11 | ELECT                | 100MF 20% 50V   |
| C1509    | 1-126-968-11 | ELECT        | 100MF 20%   | C1839    | 1-126-968-11 | ELECT                | 100MF 20% 50V   |
| C1510    | 1-137-401-11 | FILM         | 0 22MF 10%  | C1840    | 1-124-903-11 | ELECT                | 1MF 20% 50V     |
| C1511    | 1-137-423-11 | FILM         | 0 15MF 10%  | C1841    | 1-126-967-11 | ELECT                | 47MF 20% 50V    |
| C1512    | 1-137-423-11 | FILM         | 0 15MF 10%  | C1842    | 1-163-251-11 | CERAMIC CHIP         | 100PF 5% 50V    |
| C1513    | 1-163-243-11 | CERAMIC CHIP | 47PF 5%     | C1843    | 1-163-251-11 | CERAMIC CHIP         | 100PF 5% 50V    |
| C1514    | 1-163-031-11 | CERAMIC CHIP | 0 01MF 50V  | C1844    | 1-126-967-11 | ELECT                | 47MF 20% 50V    |
| C1515    | 1-163-031-11 | CERAMIC CHIP | 0 01MF 50V  | C1845    | 1-163-809-11 | CERAMIC CHIP         | 0 047MF 10% 25V |
| C1516    | 1-136-177-00 | FILM         | 1MF 5%      | C1846    | 1-163-809-11 | CERAMIC CHIP         | 0 047MF 10% 25V |
| C1517    | 1-163-125-00 | CERAMIC CHIP | 220PF 5%    | C1847    | 1-163-809-11 | CERAMIC CHIP         | 0 047MF 10% 25V |
| C1551    | 1-126-964-11 | ELECT        | 10MF 20%    | C1848    | 1-163-809-11 | CERAMIC CHIP         | 0.047MF 10% 25V |
| C1603    | 1-163-251-11 | CERAMIC CHIP | 100PF 5%    | C1849    | 1-126-968-11 | ELECT                | 100MF 20% 50V   |
| C1604    | 1-163-251-11 | CERAMIC CHIP | 100PF 5%    | C1850    | 1-126-968-11 | ELECT                | 100MF 20% 50V   |
| C1605    | 1-163-251-11 | CERAMIC CHIP | 100PF 5%    | C1851    | 1-137-399-11 | FILM                 | 0 1MF 5% 50V    |
| C1606    | 1-163-251-11 | CERAMIC CHIP | 100PF 5%    | C1852    | 1-126-968-11 | ELECT                | 100MF 20% 50V   |
| C1607    | 1-163-251-11 | CERAMIC CHIP | 100PF 5%    | C1853    | 1-137-378-11 | FILM                 | 0 22MF 5% 50V   |
| C1608    | 1-163-251-11 | CERAMIC CHIP | 100PF 5%    | C1854    | 1-126-963-11 | ELECT                | 4 7MF 20% 50V   |
| C1611    | 1-126-968-11 | ELECT        | 100MF 20%   | C1855    | 1-124-903-11 | ELECT                | 1MF 20% 50V     |
| C1612    | 1-104-665-11 | ELECT        | 100MF 20%   | C1856    | 1-104-665-11 | ELECT                | 100MF 20% 25V   |
| C1613    | 1-126-968-11 | ELECT        | 100MF 20%   | C1857    | 1-126-968-11 | ELECT                | 100MF 20% 50V   |
| C1615    | 1-104-665-11 | ELECT        | 100MF 20%   | C1858    | 1-163-809-11 | CERAMIC CHIP         | 0 047MF 10% 25V |
| C1617    | 1-126-941-11 | ELECT        | 470MF 20%   | C1859    | 1-163-809-11 | CERAMIC CHIP         | 0 047MF 10% 25V |
| C1619    | 1-104-665-11 | ELECT        | 100MF 20%   | C1860    | 1-163-809-11 | CERAMIC CHIP         | 0.047MF 10% 25V |
| C1620    | 1-126-941-11 | ELECT        | 470MF 20%   | C1861    | 1-126-968-11 | ELECT                | 100MF 20% 50V   |
| C1622    | 1-104-665-11 | ELECT        | 100MF 20%   | C1862    | 1-124-903-11 | ELECT                | 1MF 20% 50V     |
| C1701    | 1-126-935-11 | ELECT        | 470MF 20%   | C1863    | 1-136-173-00 | FILM                 | 0 47MF 5% 50V   |
| C1702    | 1-163-809-11 | CERAMIC CHIP | 0 047MF 10% | C1864    | 1-124-903-11 | ELECT                | 1MF 20% 50V     |
| C1703    | 1-163-099-00 | CERAMIC CHIP | 18PF 5%     | C1865    | 1-124-903-11 | ELECT                | 1MF 20% 50V     |
| C1704    | 1-163-125-00 | CERAMIC CHIP | 220PF 5%    | C1866    | 1-126-967-11 | ELECT                | 47MF 20% 50V    |
| C1705    | 1-163-099-00 | CERAMIC CHIP | 18PF 5%     |          |              |                      |                 |
| C1709    | 1-163-031-11 | CERAMIC CHIP | 0 01MF 50V  |          |              | <CHIP CONDUCTOR>     |                 |
| C1723    | 1-163-251-11 | CERAMIC CHIP | 100PF 5%    | CJ1      | 1-216-295-91 | CONDUCTOR, CHIP      |                 |
| C1724    | 1-163-251-11 | CERAMIC CHIP | 100PF 5%    | CJ2      | 1-216-295-91 | CONDUCTOR, CHIP      |                 |
| C1801    | 1-124-903-11 | ELECT        | 1MF 20%     | CJ3      | 1-216-295-91 | CONDUCTOR, CHIP      |                 |
| C1802    | 1-126-964-11 | ELECT        | 10MF 20%    | CJ4      | 1-216-295-91 | CONDUCTOR, CHIP      |                 |
| C1803    | 1-163-809-11 | CERAMIC CHIP | 0 047MF 10% | CJ5      | 1-216-295-91 | CONDUCTOR, CHIP      |                 |
| C1805    | 1-163-809-11 | CERAMIC CHIP | 0 047MF 10% |          |              |                      |                 |
| C1806    | 1-163-127-00 | CERAMIC CHIP | 270PF 5%    | CJ6      | 1-216-295-91 | CONDUCTOR, CHIP      |                 |
| C1807    | 1-163-809-11 | CERAMIC CHIP | 0 047MF 10% | CJ7      | 1-216-295-91 | CONDUCTOR, CHIP      |                 |
| C1808    | 1-163-809-11 | CERAMIC CHIP | 0.047MF 10% | CJ8      | 1-216-295-91 | CONDUCTOR, CHIP      |                 |
| C1809    | 1-104-661-91 | ELECT        | 330MF 20%   | CJ9      | 1-216-295-91 | CONDUCTOR, CHIP      |                 |
| C1810    | 1-104-661-91 | ELECT        | 330MF 20%   | CJ10     | 1-216-295-91 | CONDUCTOR, CHIP      |                 |
| C1811    | 1-163-809-11 | CERAMIC CHIP | 0 047MF 10% |          |              |                      |                 |
| C1812    | 1-163-809-11 | CERAMIC CHIP | 0 047MF 10% | CJ11     | 1-216-295-91 | CONDUCTOR, CHIP      |                 |
| C1813    | 1-163-275-11 | CERAMIC CHIP | 0 001MF 5%  | CJ12     | 1-216-295-91 | CONDUCTOR, CHIP      |                 |
| C1814    | 1-163-809-11 | CERAMIC CHIP | 0 047MF 10% | CJ13     | 1-216-295-91 | CONDUCTOR, CHIP      |                 |
| C1816    | 1-163-251-11 | CERAMIC CHIP | 100PF 5%    | CJ14     | 1-216-295-91 | CONDUCTOR, CHIP      |                 |
| C1817    | 1-163-251-11 | CERAMIC CHIP | 100PF 5%    | CJ15     | 1-216-295-91 | CONDUCTOR, CHIP      |                 |
| C1818    | 1-163-809-11 | CERAMIC CHIP | 0 047MF 10% |          |              |                      |                 |
| C1819    | 1-126-933-11 | ELECT        | 100MF 20%   | CJ16     | 1-216-295-91 | CONDUCTOR, CHIP      |                 |
| C1820    | 1-163-005-11 | CERAMIC CHIP | 470PF 10%   | CJ17     | 1-216-295-91 | CONDUCTOR, CHIP      |                 |
| C1821    | 1-124-902-00 | ELECT        | 0 47MF 20%  | CJ18     | 1-216-295-91 | CONDUCTOR, CHIP      |                 |
| C1822    | 1-163-005-11 | CERAMIC CHIP | 470PF 10%   | CJ19     | 1-216-295-91 | CONDUCTOR, CHIP      |                 |
| C1823    | 1-124-903-11 | ELECT        | 1MF 20%     | CJ20     | 1-216-295-91 | CONDUCTOR, CHIP      |                 |
| C1824    | 1-124-903-11 | ELECT        | 1MF 20%     |          |              |                      |                 |
| C1825    | 1-126-967-11 | ELECT        | 47MF 20%    | CJ21     | 1-216-295-91 | CONDUCTOR, CHIP      |                 |
| C1826    | 1-126-967-11 | ELECT        | 47MF 20%    | CJ22     | 1-216-295-91 | CONDUCTOR, CHIP      |                 |
| C1827    | 1-163-809-11 | CERAMIC CHIP | 0 047MF 10% | CJ23     | 1-216-295-91 | CONDUCTOR, CHIP      |                 |
| C1828    | 1-163-809-11 | CERAMIC CHIP | 0 047MF 10% | CJ24     | 1-216-295-91 | CONDUCTOR, CHIP      |                 |
| C1829    | 1-163-809-11 | CERAMIC CHIP | 0 047MF 10% | CJ25     | 1-216-295-91 | CONDUCTOR, CHIP      |                 |
| C1830    | 1-163-809-11 | CERAMIC CHIP | 0 047MF 10% |          |              |                      |                 |
| C1831    | 1-104-661-91 | ELECT        | 330MF 20%   | CJ26     | 1-216-295-91 | CONDUCTOR, CHIP      |                 |
| C1832    | 1-104-661-91 | ELECT        | 330MF 20%   | CJ27     | 1-216-295-91 | CONDUCTOR, CHIP      |                 |
| C1833    | 1-163-809-11 | CERAMIC CHIP | 0 047MF 10% | CJ28     | 1-216-295-91 | CONDUCTOR, CHIP      |                 |
|          |              |              |             | CJ29     | 1-216-295-91 | CONDUCTOR, CHIP      |                 |
|          |              |              |             | CJ30     | 1-216-295-91 | CONDUCTOR, CHIP      |                 |
|          |              |              |             |          |              |                      |                 |
|          |              |              |             | CJ31     | 1-216-295-91 | CONDUCTOR, CHIP      |                 |
|          |              |              |             | CJ32     | 1-216-295-91 | CONDUCTOR, CHIP      |                 |
|          |              |              |             | CJ33     | 1-216-295-91 | CONDUCTOR, CHIP      |                 |

**D**

Les composants identifiés par une trame et une marque  $\Delta$  sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

The components identified by shading and mark  $\Delta$  are critical for safety. Replace only with part number specified.

| REF. NO     | PART NO        | DESCRIPTION         | REMARK |
|-------------|----------------|---------------------|--------|
| CJ34        | 1-216-295-91   | CONDUCTOR, CHIP     |        |
| CJ35        | 1-216-295-91   | CONDUCTOR, CHIP     |        |
| CJ36        | 1-216-295-91   | CONDUCTOR, CHIP     |        |
| CJ37        | 1-216-295-91   | CONDUCTOR, CHIP     |        |
| CJ38        | 1-216-295-91   | CONDUCTOR, CHIP     |        |
| CJ39        | 1-216-295-91   | CONDUCTOR, CHIP     |        |
| CJ40        | 1-216-295-91   | CONDUCTOR, CHIP     |        |
| CJ42        | 1-216-295-91   | CONDUCTOR, CHIP     |        |
| CJ43        | 1-216-295-91   | CONDUCTOR, CHIP     |        |
| CJ44        | 1-216-295-91   | CONDUCTOR, CHIP     |        |
| CJ45        | 1-216-295-91   | CONDUCTOR, CHIP     |        |
| CJ46        | 1-216-295-91   | CONDUCTOR, CHIP     |        |
| CJ47        | 1-216-295-91   | CONDUCTOR, CHIP     |        |
| CJ48        | 1-216-295-91   | CONDUCTOR, CHIP     |        |
| CJ49        | 1-216-295-91   | CONDUCTOR, CHIP     |        |
| CJ50        | 1-216-295-91   | CONDUCTOR, CHIP     |        |
| CJ51        | 1-216-295-91   | CONDUCTOR, CHIP     |        |
| CJ52        | 1-216-295-91   | CONDUCTOR, CHIP     |        |
| CJ53        | 1-216-295-91   | CONDUCTOR, CHIP     |        |
| CJ54        | 1-216-295-91   | CONDUCTOR, CHIP     |        |
| CJ56        | 1-216-295-91   | CONDUCTOR, CHIP     |        |
| CJ57        | 1-216-295-91   | CONDUCTOR, CHIP     |        |
| CJ58        | 1-216-295-91   | CONDUCTOR, CHIP     |        |
| CJ59        | 1-216-295-91   | CONDUCTOR, CHIP     |        |
| CJ60        | 1-216-295-91   | CONDUCTOR, CHIP     |        |
| CJ62        | 1-216-295-91   | CONDUCTOR, CHIP     |        |
| CJ63        | 1-216-295-91   | CONDUCTOR, CHIP     |        |
| <CONNECTOR> |                |                     |        |
| CN1509      | * 1-564-506-11 | PLUG, CONNECTOR 3P  |        |
| CN1513      | * 1-564-506-11 | PLUG, CONNECTOR 3P  |        |
| CN1612      | * 1-564-507-11 | PLUG, CONNECTOR 4P  |        |
| CN1642      | * 1-564-507-11 | PLUG, CONNECTOR 4P  |        |
| CN1672      | * 1-564-507-11 | PLUG, CONNECTOR 4P  |        |
| CN1716      | * 1-564-507-11 | PLUG, CONNECTOR 4P  |        |
| CN1756      | * 1-564-508-11 | PLUG, CONNECTOR 5P  |        |
| CN1757      | * 1-564-516-11 | PLUG, CONNECTOR 13P |        |
| <DIODE>     |                |                     |        |
| D1501       | 8-719-908-03   | DIODE GP08D         |        |
| D1502       | 8-719-109-89   | DIODE RD5 6ESB2     |        |
| D1503       | 8-719-971-20   | DIODE ERC38-06      |        |
| D1505       | 8-719-109-89   | DIODE RD5 6ESB2     |        |
| D1551       | 8-719-983-14   | DIODE MTZJ-T-77-3 9 |        |
| D1552       | 8-719-991-33   | DIODE 1SS133T-77    |        |
| D1553       | 8-719-991-33   | DIODE 1SS133T-77    |        |
| D1601       | 8-719-908-03   | DIODE GP08D         |        |
| D1602       | 8-719-908-03   | DIODE GP08D         |        |
| D1603       | 8-719-908-03   | DIODE GP08D         |        |
| D1604       | 8-719-908-03   | DIODE GP08D         |        |
| D1803       | 8-719-991-33   | DIODE 1SS133T-77    |        |
| D1812       | 8-719-991-33   | DIODE 1SS133T-77    |        |
| D1814       | 8-719-991-33   | DIODE 1SS133T-77    |        |
| D1825       | 8-719-991-33   | DIODE 1SS133T-77    |        |
| D1826       | 8-719-991-33   | DIODE 1SS133T-77    |        |
| D1827       | 8-719-982-03   | DIODE MTZJ-3 6A     |        |
| D1931       | 8-719-924-16   | DIODE MTZJ-T-77-24  |        |
| D1932       | 8-719-924-16   | DIODE MTZJ-T-77-24  |        |
| D1934       | 8-719-924-16   | DIODE MTZJ-T-77-24  |        |
| D1935       | 8-719-924-16   | DIODE MTZJ-T-77-24  |        |
| D1936       | 8-719-924-16   | DIODE MTZJ-T-77-24  |        |
| D1937       | 8-719-924-16   | DIODE MTZJ-T-77-24  |        |
| D1942       | 8-719-924-16   | DIODE MTZJ-T-77-24  |        |
| D1945       | 8-719-924-16   | DIODE MTZJ-T-77-24  |        |
| D1946       | 8-719-924-16   | DIODE MTZJ-T-77-24  |        |
| D1947       | 8-719-924-16   | DIODE MTZJ-T-77-24  |        |
| D1948       | 8-719-921-86   | DIODE MTZJ-13       |        |

| REF. NO      | PART NO               | DESCRIPTION                 | REMARK      |
|--------------|-----------------------|-----------------------------|-------------|
| D1949        | 8-719-924-16          | DIODE MTZJ-T-77-24          |             |
| D1951        | 8-719-921-86          | DIODE MTZJ-13               |             |
| D1953        | 8-719-921-86          | DIODE MTZJ-13               |             |
| D1954        | 8-719-921-86          | DIODE MTZJ-13               |             |
| <FUSE>       |                       |                             |             |
| F1601        | $\Delta$ 1-532-745-11 | FUSE, GLASS TUBE 3.15A/125V |             |
|              | 1-533-223-11          | CLIP, FUSE ; F1601          |             |
| F1602        | $\Delta$ 1-532-745-11 | FUSE, GLASS TUBE 3.15A/125V |             |
|              | 1-533-223-11          | CLIP, FUSE ; F1602          |             |
| <IC>         |                       |                             |             |
| IC1501       | 8-759-192-71          | IC STV9379                  |             |
| IC1601       | 8-749-010-88          | IC STK392-010               |             |
| IC1602       | 8-749-010-88          | IC STK392-010               |             |
| IC1701       | 8-752-861-57          | IC CXP85112B-613S           |             |
| IC1702       | 8-759-041-54          | IC MN1382S                  |             |
| IC1801       | 8-759-327-52          | IC PM0002B                  |             |
| IC1802       | 8-759-327-51          | IC PA0053B                  |             |
| IC1803       | 8-759-012-67          | IC MC7905CT                 |             |
| IC1803       | 8-759-929-64          | IC LM7905CT                 |             |
| IC1804       | 8-759-231-53          | IC TA7805S                  |             |
| IC1804       | 8-759-231-53          | IC TA7805S                  |             |
| IC1805       | 8-759-327-52          | IC PM0002B                  |             |
| IC1806       | 8-759-327-51          | IC PA0053B                  |             |
| IC1807       | 8-759-929-65          | IC LM7912CT                 |             |
| IC1807       | 8-759-929-65          | IC LM7912CT                 |             |
| IC1808       | 8-759-279-76          | IC MCT7812CT                |             |
| IC1808       | 8-759-231-58          | IC TA7812S                  |             |
| IC1809       | 8-759-327-52          | IC PM0002B                  |             |
| IC1931       | 8-759-711-28          | IC NJM2058D                 |             |
| IC1932       | 8-759-711-28          | IC NJM2058D                 |             |
| <COIL>       |                       |                             |             |
| L1501        | 1-412-533-21          | INDUCTOR 47UH               |             |
| L1502        | 1-412-533-21          | INDUCTOR 47UH               |             |
| L1503        | 1-412-524-11          | INDUCTOR 8 2UH              |             |
| L1515        | 1-410-470-11          | INDUCTOR 10UH               |             |
| L1516        | 1-410-482-31          | INDUCTOR 100UH              |             |
| L1701        | 1-410-470-11          | INDUCTOR 10UH               |             |
| L1801        | 1-406-975-21          | COIL, CHOKE 47UH            |             |
| L1802        | 1-406-975-21          | COIL, CHOKE 47UH            |             |
| <TRANSISTOR> |                       |                             |             |
| Q1501        | 8-729-422-27          | TRANSISTOR 2SD601A-Q        |             |
| Q1502        | 8-729-422-27          | TRANSISTOR 2SD601A-Q        |             |
| Q1551        | 8-729-216-22          | TRANSISTOR 2SA1162-G        |             |
| Q1552        | 8-729-422-27          | TRANSISTOR 2SD601A-Q        |             |
| Q1701        | 8-729-422-27          | TRANSISTOR 2SD601A-Q        |             |
| Q1801        | 8-729-422-27          | TRANSISTOR 2SD601A-Q        |             |
| Q1802        | 8-729-216-22          | TRANSISTOR 2SA1162-G        |             |
| Q1803        | 8-729-029-86          | TRANSISTOR DTC124ESA        |             |
| Q1804        | 8-729-422-27          | TRANSISTOR 2SD601A-Q        |             |
| Q1805        | 8-729-029-86          | TRANSISTOR DTC124ESA        |             |
| <RESISTOR>   |                       |                             |             |
| R1501        | 1-216-049-91          | METAL GLAZE 1K              | 5% 1/10W    |
| R1502        | 1-208-814-11          | METAL CHIP 22K              | 0 50% 1/10W |
| R1504        | 1-216-081-00          | METAL GLAZE 22K             | 5% 1/10W    |
| R1505        | 1-216-085-00          | METAL GLAZE 33K             | 5% 1/10W    |
| R1506        | 1-216-049-91          | METAL GLAZE 1K              | 5% 1/10W    |
| R1507        | 1-208-814-11          | METAL CHIP 22K              | 0 50% 1/10W |
| R1508        | 1-216-057-00          | METAL GLAZE 2.2K            | 5% 1/10W    |
| R1509        | $\Delta$ 1-249-383-91 | CARBON 1.5                  | 5% 1/4W F   |
| R1510        | 1-214-671-11          | METAL 3 9                   | 1% 1/4W     |



The components identified by shading and mark  $\Delta$  are critical for safety  
Replace only with part number specified

Les composants identifiés par une trame et une marque  $\Delta$  sont critiques pour la sécurité  
Ne les remplacer que par une pièce portant le numéro spécifié

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| REF. NO        | PART NO      | DESCRIPTION      | REMARK      | REF NO | PART NO      | DESCRIPTION      | REMARK      |
|----------------|--------------|------------------|-------------|--------|--------------|------------------|-------------|
| R1511          | 1-214-671-11 | METAL 3 9        | 1% 1/4W     | R1803  | 1-216-073-00 | METAL GLAZE 10K  | 5% 1/10W    |
| R1512          | 1-215-912-11 | METAL OXIDE 150  | 5% 3W F     | R1804  | 1-216-057-00 | METAL GLAZE 2 2K | 5% 1/10W    |
| R1513          | 1-214-671-11 | METAL 3 9        | 1% 1/4W     | R1805  | 1-216-069-00 | METAL GLAZE 6 8K | 5% 1/10W    |
| R1514          | 1-216-632-11 | METAL CHIP 160   | 0 50% 1/10W | R1806  | 1-216-081-00 | METAL GLAZE 22K  | 5% 1/10W    |
| R1515          | 1-216-639-11 | METAL CHIP 330   | 0 50% 1/10W | R1807  | 1-216-075-00 | METAL GLAZE 12K  | 5% 1/10W    |
| R1516          | 1-214-671-11 | METAL 3 9        | 1% 1/4W     | R1808  | 1-216-049-91 | METAL GLAZE 1K   | 5% 1/10W    |
| R1517          | 1-216-647-11 | METAL CHIP 680   | 0 50% 1/10W | R1809  | 1-216-081-00 | METAL GLAZE 22K  | 5% 1/10W    |
| R1518          | 1-216-665-11 | METAL CHIP 3.9K  | 0 50% 1/10W | R1810  | 1-216-097-91 | METAL GLAZE 100K | 5% 1/10W    |
| R1519 $\Delta$ | 1-249-385-91 | CARBON 2.2       | 5% 1/4W F   | R1811  | 1-216-081-00 | METAL GLAZE 22K  | 5% 1/10W    |
| R1520 $\Delta$ | 1-249-385-91 | CARBON 2.2       | 5% 1/4W F   | R1812  | 1-216-097-91 | METAL GLAZE 100K | 5% 1/10W    |
| R1521          | 1-216-049-91 | METAL GLAZE 1K   | 5% 1/10W    | R1813  | 1-216-057-00 | METAL GLAZE 2 2K | 5% 1/10W    |
| R1522          | 1-216-049-91 | METAL GLAZE 1K   | 5% 1/10W    | R1814  | 1-216-699-11 | METAL CHIP 100K  | 0 50% 1/10W |
| R1523          | 1-216-033-00 | METAL GLAZE 220  | 5% 1/10W    | R1815  | 1-216-697-91 | METAL CHIP 82K   | 0 50% 1/10W |
| R1551          | 1-216-081-00 | METAL GLAZE 22K  | 5% 1/10W    | R1816  | 1-216-097-91 | METAL GLAZE 100K | 5% 1/10W    |
| R1552          | 1-216-063-91 | METAL GLAZE 3 9K | 5% 1/10W    | R1817  | 1-216-033-00 | METAL GLAZE 220  | 5% 1/10W    |
| R1553          | 1-216-077-00 | METAL GLAZE 15K  | 5% 1/10W    | R1818  | 1-216-025-91 | METAL GLAZE 100  | 5% 1/10W    |
| R1554          | 1-216-049-91 | METAL GLAZE 1K   | 5% 1/10W    | R1819  | 1-216-025-91 | METAL GLAZE 100  | 5% 1/10W    |
| R1559          | 1-216-073-00 | METAL GLAZE 10K  | 5% 1/10W    | R1820  | 1-216-025-91 | METAL GLAZE 100  | 5% 1/10W    |
| R1562          | 1-216-025-91 | METAL GLAZE 100  | 5% 1/10W    | R1821  | 1-216-097-91 | METAL GLAZE 100K | 5% 1/10W    |
| R1603          | 1-216-663-11 | METAL CHIP 3 3K  | 0 50% 1/10W | R1823  | 1-208-811-11 | METAL CHIP 16K   | 0 50% 1/10W |
| R1604          | 1-216-663-11 | METAL CHIP 3 3K  | 0 50% 1/10W | R1824  | 1-216-685-11 | METAL CHIP 27K   | 0 50% 1/10W |
| R1605          | 1-216-663-11 | METAL CHIP 3 3K  | 0 50% 1/10W | R1825  | 1-216-685-11 | METAL CHIP 27K   | 0 50% 1/10W |
| R1606          | 1-216-663-11 | METAL CHIP 3 3K  | 0 50% 1/10W | R1826  | 1-216-685-11 | METAL CHIP 27K   | 0 50% 1/10W |
| R1607          | 1-216-663-11 | METAL CHIP 3 3K  | 0 50% 1/10W | R1827  | 1-216-685-11 | METAL CHIP 27K   | 0 50% 1/10W |
| R1608          | 1-216-663-11 | METAL CHIP 3 3K  | 0 50% 1/10W | R1828  | 1-216-685-11 | METAL CHIP 27K   | 0 50% 1/10W |
| R1610          | 1-214-729-00 | METAL 1K         | 1% 1/4W     | R1829  | 1-216-685-11 | METAL CHIP 27K   | 0 50% 1/10W |
| R1612          | 1-214-729-00 | METAL 1K         | 1% 1/4W     | R1830  | 1-216-025-91 | METAL GLAZE 100  | 5% 1/10W    |
| R1613          | 1-214-673-00 | METAL 4.7        | 1% 1/4W     | R1831  | 1-216-049-91 | METAL GLAZE 1K   | 5% 1/10W    |
| R1615          | 1-214-673-00 | METAL 4.7        | 1% 1/4W     | R1832  | 1-216-677-11 | METAL CHIP 12K   | 0 50% 1/10W |
| R1616          | 1-214-673-00 | METAL 4.7        | 1% 1/4W     | R1833  | 1-216-049-91 | METAL GLAZE 1K   | 5% 1/10W    |
| R1618          | 1-214-673-00 | METAL 4.7        | 1% 1/4W     | R1834  | 1-216-049-91 | METAL GLAZE 1K   | 5% 1/10W    |
| R1619          | 1-214-673-00 | METAL 4.7        | 1% 1/4W     | R1835  | 1-216-025-91 | METAL GLAZE 100  | 5% 1/10W    |
| R1620          | 1-214-673-00 | METAL 4.7        | 1% 1/4W     | R1836  | 1-216-081-00 | METAL GLAZE 22K  | 5% 1/10W    |
| R1621          | 1-214-673-00 | METAL 4.7        | 1% 1/4W     | R1837  | 1-208-806-11 | METAL CHIP 10K   | 0 50% 1/10W |
| R1622          | 1-214-673-00 | METAL 4.7        | 1% 1/4W     | R1838  | 1-216-667-11 | METAL CHIP 4 7K  | 0 50% 1/10W |
| R1623          | 1-214-729-00 | METAL 1K         | 1% 1/4W     | R1839  | 1-216-031-00 | METAL GLAZE 180  | 5% 1/10W    |
| R1624          | 1-214-729-00 | METAL 1K         | 1% 1/4W     | R1840  | 1-208-806-11 | METAL CHIP 10K   | 0 50% 1/10W |
| R1625          | 1-214-673-00 | METAL 4.7        | 1% 1/4W     | R1841  | 1-208-806-11 | METAL CHIP 10K   | 0 50% 1/10W |
| R1626          | 1-214-673-00 | METAL 4.7        | 1% 1/4W     | R1842  | 1-216-025-91 | METAL GLAZE 100  | 5% 1/10W    |
| R1627          | 1-214-673-00 | METAL 4.7        | 1% 1/4W     | R1843  | 1-216-667-11 | METAL CHIP 4 7K  | 0 50% 1/10W |
| R1628          | 1-214-673-00 | METAL 4.7        | 1% 1/4W     | R1844  | 1-216-025-91 | METAL GLAZE 100  | 5% 1/10W    |
| R1629          | 1-214-673-00 | METAL 4.7        | 1% 1/4W     | R1845  | 1-216-077-00 | METAL GLAZE 15K  | 5% 1/10W    |
| R1630          | 1-214-673-00 | METAL 4.7        | 1% 1/4W     | R1846  | 1-216-125-00 | METAL GLAZE 1 5M | 5% 1/10W    |
| R1631          | 1-214-729-00 | METAL 1K         | 1% 1/4W     | R1847  | 1-208-806-11 | METAL CHIP 10K   | 0 50% 1/10W |
| R1632          | 1-214-673-00 | METAL 4.7        | 1% 1/4W     | R1848  | 1-216-077-00 | METAL GLAZE 15K  | 5% 1/10W    |
| R1633          | 1-214-673-00 | METAL 4.7        | 1% 1/4W     | R1849  | 1-216-067-00 | METAL GLAZE 5 6K | 5% 1/10W    |
| R1634          | 1-214-729-00 | METAL 1K         | 1% 1/4W     | R1850  | 1-216-097-91 | METAL GLAZE 100K | 5% 1/10W    |
| R1635          | 1-214-673-00 | METAL 4.7        | 1% 1/4W     | R1851  | 1-216-043-91 | METAL GLAZE 560  | 5% 1/10W    |
| R1636          | 1-214-673-00 | METAL 4.7        | 1% 1/4W     | R1852  | 1-216-097-91 | METAL GLAZE 100K | 5% 1/10W    |
| R1637          | 1-214-673-00 | METAL 4.7        | 1% 1/4W     | R1853  | 1-216-057-00 | METAL GLAZE 2 2K | 5% 1/10W    |
| R1638          | 1-214-673-00 | METAL 4.7        | 1% 1/4W     | R1854  | 1-216-025-91 | METAL GLAZE 100  | 5% 1/10W    |
| R1639          | 1-214-673-00 | METAL 4.7        | 1% 1/4W     | R1855  | 1-216-097-91 | METAL GLAZE 100K | 5% 1/10W    |
| R1640          | 1-214-673-00 | METAL 4.7        | 1% 1/4W     | R1856  | 1-216-025-91 | METAL GLAZE 100  | 5% 1/10W    |
| R1641          | 1-214-673-00 | METAL 4.7        | 1% 1/4W     | R1857  | 1-216-033-00 | METAL GLAZE 220  | 5% 1/10W    |
| R1642          | 1-214-673-00 | METAL 4.7        | 1% 1/4W     | R1858  | 1-216-097-91 | METAL GLAZE 100K | 5% 1/10W    |
| R1717          | 1-216-033-00 | METAL GLAZE 220  | 5% 1/10W    | R1859  | 1-216-025-91 | METAL GLAZE 100  | 5% 1/10W    |
| R1721          | 1-216-033-00 | METAL GLAZE 220  | 5% 1/10W    | R1860  | 1-216-025-91 | METAL GLAZE 100  | 5% 1/10W    |
| R1737          | 1-216-033-00 | METAL GLAZE 220  | 5% 1/10W    | R1861  | 1-216-473-11 | METAL OXIDE 56   | 5% 3W F     |
| R1740          | 1-216-025-91 | METAL GLAZE 100  | 5% 1/10W    | R1862  | 1-216-473-11 | METAL OXIDE 56   | 5% 3W F     |
| R1748          | 1-216-033-00 | METAL GLAZE 220  | 5% 1/10W    | R1863  | 1-216-025-91 | METAL GLAZE 100  | 5% 1/10W    |
| R1749          | 1-216-295-91 | CONDUCTOR, CHIP  |             | R1864  | 1-216-025-91 | METAL GLAZE 100  | 5% 1/10W    |
| R1751          | 1-216-081-00 | METAL GLAZE 22K  | 5% 1/10W    | R1865  | 1-216-473-11 | METAL OXIDE 56   | 5% 3W F     |
| R1752          | 1-216-073-00 | METAL GLAZE 10K  | 5% 1/10W    | R1866  | 1-216-473-11 | METAL OXIDE 56   | 5% 3W F     |
| R1753          | 1-216-295-91 | CONDUCTOR, CHIP  |             | R1868  | 1-216-025-91 | METAL GLAZE 100  | 5% 1/10W    |
| R1760          | 1-216-295-91 | CONDUCTOR, CHIP  |             | R1869  | 1-216-685-11 | METAL CHIP 27K   | 0 50% 1/10W |
| R1788          | 1-208-806-11 | METAL CHIP 10K   | 0 50% 1/10W | R1870  | 1-216-685-11 | METAL CHIP 27K   | 0 50% 1/10W |
| R1801          | 1-216-049-91 | METAL GLAZE 1K   | 5% 1/10W    | R1871  | 1-216-685-11 | METAL CHIP 27K   | 0 50% 1/10W |
| R1802          | 1-216-049-91 | METAL GLAZE 1K   | 5% 1/10W    | R1872  | 1-216-685-11 | METAL CHIP 27K   | 0 50% 1/10W |



Les composants identifiés par  
une trame et une marque  $\Delta$   
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The components identified by  
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for safety.  
Replace only with part number  
specified

| REF NO | PART NO               | DESCRIPTION      | REMARK      |
|--------|-----------------------|------------------|-------------|
| R1873  | 1-216-685-11          | METAL CHIP 27K   | 0 50% 1/10W |
| R1874  | 1-216-685-11          | METAL CHIP 27K   | 0 50% 1/10W |
| R1875  | 1-208-824-11          | METAL CHIP 56K   | 0.50% 1/10W |
| R1876  | 1-216-025-91          | METAL GLAZE 100  | 5% 1/10W    |
| R1877  | 1-208-810-11          | METAL CHIP 15K   | 0 50% 1/10W |
| R1878  | 1-208-806-11          | METAL CHIP 10K   | 0.50% 1/10W |
| R1879  | 1-216-685-11          | METAL CHIP 27K   | 0 50% 1/10W |
| R1880  | 1-218-768-11          | METAL CHIP 470K  | 0 50% 1/10W |
| R1881  | 1-216-295-91          | CONDUCTOR, CHIP  |             |
| R1883  | 1-216-677-11          | METAL CHIP 12K   | 0 50% 1/10W |
| R1884  | 1-208-806-11          | METAL CHIP 10K   | 0.50% 1/10W |
| R1885  | 1-216-049-91          | METAL GLAZE 1K   | 5% 1/10W    |
| R1886  | 1-216-031-00          | METAL GLAZE 180  | 5% 1/10W    |
| R1887  | 1-208-806-11          | METAL CHIP 10K   | 0 50% 1/10W |
| R1888  | 1-216-667-11          | METAL CHIP 4 7K  | 0 50% 1/10W |
| R1889  | 1-216-667-11          | METAL CHIP 4.7K  | 0 50% 1/10W |
| R1890  | 1-216-125-00          | METAL GLAZE 1 5M | 5% 1/10W    |
| R1891  | 1-208-806-11          | METAL CHIP 10K   | 0 50% 1/10W |
| R1892  | 1-216-061-00          | METAL GLAZE 3 3K | 5% 1/10W    |
| R1893  | 1-216-097-91          | METAL GLAZE 100K | 5% 1/10W    |
| R1894  | $\Delta$ 1-249-389-91 | CARBON 4.7       | 5% 1/4W F   |
| R1895  | 1-216-043-91          | METAL GLAZE 560  | 5% 1/10W    |
| R1896  | $\Delta$ 1-249-389-91 | CARBON 4.7       | 5% 1/4W F   |
| R1897  | 1-216-097-91          | METAL GLAZE 100K | 5% 1/10W    |
| R1898  | 1-216-057-00          | METAL GLAZE 2 2K | 5% 1/10W    |
| R1899  | 1-216-097-91          | METAL GLAZE 100K | 5% 1/10W    |
| R1900  | 1-216-033-00          | METAL GLAZE 220  | 5% 1/10W    |
| R1901  | 1-216-025-91          | METAL GLAZE 100  | 5% 1/10W    |
| R1902  | 1-216-025-91          | METAL GLAZE 100  | 5% 1/10W    |
| R1903  | 1-216-025-91          | METAL GLAZE 100  | 5% 1/10W    |
| R1904  | 1-216-025-91          | METAL GLAZE 100  | 5% 1/10W    |
| R1905  | 1-216-097-91          | METAL GLAZE 100K | 5% 1/10W    |
| R1907  | 1-208-810-11          | METAL CHIP 15K   | 0 50% 1/10W |
| R1908  | 1-208-814-11          | METAL CHIP 22K   | 0 50% 1/10W |
| R1909  | 1-216-025-91          | METAL GLAZE 100  | 5% 1/10W    |
| R1910  | 1-216-685-11          | METAL CHIP 27K   | 0 50% 1/10W |
| R1911  | 1-216-685-11          | METAL CHIP 27K   | 0 50% 1/10W |
| R1912  | 1-216-685-11          | METAL CHIP 27K   | 0 50% 1/10W |
| R1913  | 1-216-685-11          | METAL CHIP 27K   | 0 50% 1/10W |
| R1914  | 1-216-685-11          | METAL CHIP 27K   | 0 50% 1/10W |
| R1915  | 1-216-685-11          | METAL CHIP 27K   | 0 50% 1/10W |
| R1916  | 1-216-025-91          | METAL GLAZE 100  | 5% 1/10W    |
| R1917  | 1-208-806-11          | METAL CHIP 10K   | 0.50% 1/10W |
| R1918  | 1-216-667-11          | METAL CHIP 4 7K  | 0.50% 1/10W |
| R1919  | 1-208-822-11          | METAL CHIP 47K   | 0 50% 1/10W |
| R1920  | 1-216-667-11          | METAL CHIP 4 7K  | 0 50% 1/10W |
| R1923  | 1-216-677-11          | METAL CHIP 12K   | 0 50% 1/10W |
| R1925  | 1-216-031-00          | METAL GLAZE 180  | 5% 1/10W    |
| R1926  | 1-208-806-11          | METAL CHIP 10K   | 0 50% 1/10W |
| R1927  | 1-216-125-00          | METAL GLAZE 1 5M | 5% 1/10W    |
| R1928  | 1-208-806-11          | METAL CHIP 10K   | 0 50% 1/10W |
| R1931  | 1-216-698-11          | METAL CHIP 91K   | 0 50% 1/10W |
| R1935  | 1-218-766-11          | METAL CHIP 390K  | 0 50% 1/10W |
| R1937  | 1-208-806-11          | METAL CHIP 10K   | 0 50% 1/10W |
| R1938  | 1-208-810-11          | METAL CHIP 15K   | 0 50% 1/10W |
| R1940  | 1-208-812-11          | METAL CHIP 18K   | 0 50% 1/10W |
| R1941  | 1-208-806-11          | METAL CHIP 10K   | 0 50% 1/10W |
| R1942  | 1-208-806-11          | METAL CHIP 10K   | 0 50% 1/10W |
| R1943  | 1-216-699-11          | METAL CHIP 100K  | 0 50% 1/10W |
| R1944  | 1-208-806-11          | METAL CHIP 10K   | 0.50% 1/10W |
| R1947  | 1-216-073-00          | METAL GLAZE 10K  | 5% 1/10W    |
| R1948  | 1-216-093-00          | METAL GLAZE 68K  | 5% 1/10W    |
| R1949  | 1-216-659-11          | METAL CHIP 2 2K  | 0 50% 1/10W |
| R1950  | 1-216-659-11          | METAL CHIP 2 2K  | 0 50% 1/10W |
| R1951  | 1-208-806-11          | METAL CHIP 10K   | 0 50% 1/10W |
| R1952  | 1-208-806-11          | METAL CHIP 10K   | 0 50% 1/10W |
| R1954  | 1-208-806-11          | METAL CHIP 10K   | 0 50% 1/10W |
| R1955  | 1-208-806-11          | METAL CHIP 10K   | 0 50% 1/10W |
| R1956  | 1-208-800-11          | METAL CHIP 5 6K  | 0.50% 1/10W |

| REF NO                            | PART NO        | DESCRIPTION        | REMARK      |
|-----------------------------------|----------------|--------------------|-------------|
| R1957                             | 1-208-824-11   | METAL CHIP 56K     | 0.50% 1/10W |
| R1958                             | 1-208-800-11   | METAL CHIP 5.6K    | 0.50% 1/10W |
| R1959                             | 1-208-824-11   | METAL CHIP 56K     | 0 50% 1/10W |
| R1960                             | 1-208-806-11   | METAL CHIP 10K     | 0.50% 1/10W |
| R1961                             | 1-208-806-11   | METAL CHIP 10K     | 0 50% 1/10W |
| R1962                             | 1-216-077-00   | METAL GLAZE 15K    | 5% 1/10W    |
| R1963                             | 1-216-073-00   | METAL GLAZE 10K    | 5% 1/10W    |
| R1964                             | 1-216-049-91   | METAL GLAZE 1K     | 5% 1/10W    |
| R1965                             | 1-216-073-00   | METAL GLAZE 10K    | 5% 1/10W    |
| R1966                             | 1-216-073-00   | METAL GLAZE 10K    | 5% 1/10W    |
| R1967                             | 1-216-071-00   | METAL GLAZE 8 2K   | 5% 1/10W    |
| R1970                             | 1-208-774-11   | METAL CHIP 470     | 0 50% 1/10W |
| R1971                             | 1-216-667-11   | METAL CHIP 4 7K    | 0 50% 1/10W |
| R1972                             | 1-216-111-91   | METAL GLAZE 390K   | 5% 1/10W    |
| R1981                             | 1-216-473-11   | METAL OXIDE 56     | 5% 3W F     |
| R1982                             | 1-216-473-11   | METAL OXIDE 56     | 5% 3W F     |
| R1983                             | 1-216-077-00   | METAL GLAZE 15K    | 5% 1/10W    |
| R1984                             | 1-216-077-00   | METAL GLAZE 15K    | 5% 1/10W    |
| R1985                             | 1-216-025-91   | METAL GLAZE 100    | 5% 1/10W    |
| <THERMISTOR>                      |                |                    |             |
| TH1501                            | 1-807-925-11   | THERMISTOR         |             |
| TH1801                            | 1-808-269-11   | THERMISTOR         |             |
| <CRYSTAL>                         |                |                    |             |
| X1701                             | 1-579-917-11   | VIBRATOR, CRYSTAL  |             |
| *****                             |                |                    |             |
| * A-1372-099-A HA BOARD, COMPLETE |                |                    |             |
| *****                             |                |                    |             |
| <CAPACITOR>                       |                |                    |             |
| C1301                             | 1-126-964-11   | ELECT 10MF         | 20% 50V     |
| C1304                             | 1-126-964-11   | ELECT 10MF         | 20% 50V     |
| <CONNECTOR>                       |                |                    |             |
| CN1346                            | 1-564-524-11   | PLUG, CONNECTOR 9P |             |
| CN1347                            | * 1-564-521-11 | PLUG, CONNECTOR 6P |             |
| <DIODE>                           |                |                    |             |
| D1304                             | 8-719-053-43   | DIODE SLR-325VCT31 |             |
| D1305                             | 8-719-053-43   | DIODE SLR-325VCT31 |             |
| <IC>                              |                |                    |             |
| IC1301                            | 8-741-780-51   | IC SBX1780-51      |             |
| <JACK>                            |                |                    |             |
| J1301                             | 1-750-517-11   | JACK BLOCK, PIN 3P |             |
| <RESISTOR>                        |                |                    |             |
| R1302                             | 1-249-416-11   | CARBON 820         | 5% 1/4W     |
| R1303                             | 1-249-417-11   | CARBON 1K          | 5% 1/4W     |
| R1304                             | 1-249-425-11   | CARBON 4 7K        | 5% 1/4W     |
| R1305                             | 1-249-411-11   | CARBON 330         | 5% 1/4W     |
| R1306                             | 1-249-411-11   | CARBON 330         | 5% 1/4W     |
| R1307                             | 1-249-420-11   | CARBON 1 8K        | 5% 1/4W     |
| R1308                             | 1-247-895-91   | CARBON 470K        | 5% 1/4W     |

**HA** **U**

| REF. NO.               | PART NO.     | DESCRIPTION                        | REMARK |     |      |  |
|------------------------|--------------|------------------------------------|--------|-----|------|--|
| R1309                  | 1-247-895-91 | CARBON                             | 470K   | 5%  | 1/4W |  |
| R1310                  | 1-249-429-11 | CARBON                             | 10K    | 5%  | 1/4W |  |
| R1311                  | 1-247-815-91 | CARBON                             | 220    | 5%  | 1/4W |  |
| R1312                  | 1-247-804-11 | CARBON                             | 75     | 5%  | 1/4W |  |
| R1314                  | 1-247-807-31 | CARBON                             | 100    | 5%  | 1/4W |  |
| <SWITCH>               |              |                                    |        |     |      |  |
| S1301                  | 1-571-731-11 | SWITCH, TACTIL                     |        |     |      |  |
| S1302                  | 1-571-731-11 | SWITCH, TACTIL                     |        |     |      |  |
| S1303                  | 1-571-731-11 | SWITCH, TACTIL                     |        |     |      |  |
| S1304                  | 1-571-731-11 | SWITCH, TACTIL                     |        |     |      |  |
| S1305                  | 1-571-731-11 | SWITCH, TACTIL                     |        |     |      |  |
| S1306                  | 1-571-731-11 | SWITCH, TACTIL                     |        |     |      |  |
| S1307                  | 1-571-731-11 | SWITCH, TACTIL                     |        |     |      |  |
| *****                  |              |                                    |        |     |      |  |
| * A-1373-511-A         |              | U BOARD, COMPLETE (KP-46S17/53S17) |        |     |      |  |
|                        |              | *****                              |        |     |      |  |
| * A-1373-562-A         |              | U BOARD, COMPLETE                  |        |     |      |  |
|                        |              | *****                              |        |     |      |  |
|                        |              | (KP-41T25/46S25/53S25)             |        |     |      |  |
| <CAPACITOR>            |              |                                    |        |     |      |  |
| C1101                  | 1-126-965-11 | ELECT                              | 22MF   | 20% | 50V  |  |
| C1102                  | 1-124-903-11 | ELECT                              | 1MF    | 20% | 50V  |  |
| C1103                  | 1-124-903-11 | ELECT                              | 1MF    | 20% | 50V  |  |
| C1104                  | 1-163-031-11 | CERAMIC CHIP                       | 0 01MF |     | 50V  |  |
| C1105                  | 1-126-965-11 | ELECT                              | 22MF   | 20% | 50V  |  |
| C1106                  | 1-126-965-11 | ELECT                              | 22MF   | 20% | 50V  |  |
| C1107                  | 1-124-903-11 | ELECT                              | 1MF    | 20% | 50V  |  |
| C1108                  | 1-124-903-11 | ELECT                              | 1MF    | 20% | 50V  |  |
| C1109                  | 1-126-965-11 | ELECT                              | 22MF   | 20% | 50V  |  |
| C1110                  | 1-124-903-11 | ELECT                              | 1MF    | 20% | 50V  |  |
| C1111                  | 1-124-903-11 | ELECT                              | 1MF    | 20% | 50V  |  |
| C1121                  | 1-126-935-11 | ELECT                              | 470MF  | 20% | 16V  |  |
| C1122                  | 1-163-117-00 | CERAMIC CHIP                       | 100PF  | 5%  | 50V  |  |
| C1123                  | 1-124-903-11 | ELECT                              | 1MF    | 20% | 50V  |  |
| C1124                  | 1-126-965-11 | ELECT                              | 22MF   | 20% | 50V  |  |
| C1125                  | 1-124-903-11 | ELECT                              | 1MF    | 20% | 50V  |  |
| C1126                  | 1-104-665-11 | ELECT                              | 100MF  | 20% | 25V  |  |
| C1127                  | 1-104-663-11 | ELECT                              | 33MF   | 20% | 25V  |  |
| C1128                  | 1-163-117-00 | CERAMIC CHIP                       | 100PF  | 5%  | 50V  |  |
| C1129                  | 1-126-965-11 | ELECT                              | 22MF   | 20% | 50V  |  |
| (KP-41T25/46S25/53S25) |              |                                    |        |     |      |  |
| C1130                  | 1-109-889-11 | ELECT                              | 1MF    | 20% | 50V  |  |
| (KP-41T25/46S25/53S25) |              |                                    |        |     |      |  |
| C1131                  | 1-109-889-11 | ELECT                              | 1MF    | 20% | 50V  |  |
| (KP-41T25/46S25/53S25) |              |                                    |        |     |      |  |
| C1132                  | 1-124-902-00 | ELECT                              | 0 47MF | 20% | 50V  |  |
| C1133                  | 1-126-965-11 | ELECT                              | 22MF   | 20% | 50V  |  |
| C1134                  | 1-104-665-11 | ELECT                              | 100MF  | 20% | 25V  |  |
| C1136                  | 1-126-965-11 | ELECT                              | 22MF   | 20% | 50V  |  |
| C1137                  | 1-164-232-11 | CERAMIC CHIP                       | 0 01MF | 10% | 50V  |  |
| C1138                  | 1-124-902-00 | ELECT                              | 0 47MF | 20% | 50V  |  |
| C1139                  | 1-126-964-11 | ELECT                              | 10MF   | 20% | 50V  |  |
| C1145                  | 1-126-934-11 | ELECT                              | 220MF  | 20% | 16V  |  |
| C1146                  | 1-124-902-00 | ELECT                              | 0 47MF | 20% | 50V  |  |
| C1147                  | 1-124-902-00 | ELECT                              | 0 47MF | 20% | 50V  |  |
| C1148                  | 1-124-902-00 | ELECT                              | 0 47MF | 20% | 50V  |  |
| C1149                  | 1-124-902-00 | ELECT                              | 0 47MF | 20% | 50V  |  |
| C1150                  | 1-126-934-11 | ELECT                              | 220MF  | 20% | 16V  |  |
| C1151                  | 1-126-934-11 | ELECT                              | 220MF  | 20% | 16V  |  |
| C1152                  | 1-126-934-11 | ELECT                              | 220MF  | 20% | 16V  |  |
| C1153                  | 1-104-665-11 | ELECT                              | 100MF  | 20% | 25V  |  |

| REF NO           | PART NO        | DESCRIPTION                   | REMARK |
|------------------|----------------|-------------------------------|--------|
| <CHIP CONDUCTOR> |                |                               |        |
| CJ1101           | 1-216-295-91   | CONDUCTOR, CHIP               |        |
| <FILTER BLOCK>   |                |                               |        |
| CM1101           | 1-473-595-11   | COMB FILTER BLOCK             |        |
| <CONNECTOR>      |                |                               |        |
| CN1147           | * 1-564-509-11 | PLUG, CONNECTOR 6P            |        |
| CN1150           | 1-573-300-21   | CONNECTOR, BOARD TO BOARD 18P |        |
| CN1155           | * 1-565-928-11 | CONNECTOR (TUB) 30P           |        |
| CN1156           | * 1-566-641-11 | CONNECTOR, HINGE (TAB) 18P    |        |
| <DIODE>          |                |                               |        |
| D1101            | 8-719-110-17   | DIODE RD10ESB2                |        |
| D1102            | 8-719-110-17   | DIODE RD10ESB2                |        |
| D1103            | 8-719-110-17   | DIODE RD10ESB2                |        |
| D1104            | 8-719-110-17   | DIODE RD10ESB2                |        |
| D1105            | 8-719-110-17   | DIODE RD10ESB2                |        |
| D1106            | 8-719-110-17   | DIODE RD10ESB2                |        |
| D1107            | 8-719-110-17   | DIODE RD10ESB2                |        |
| D1108            | 8-719-110-17   | DIODE RD10ESB2                |        |
| D1109            | 8-719-110-17   | DIODE RD10ESB2                |        |
| D1111            | 8-719-110-17   | DIODE RD10ESB2                |        |
| D1112            | 8-719-110-17   | DIODE RD10ESB2                |        |
| D1113            | 8-719-110-17   | DIODE RD10ESB2                |        |
| D1114            | 8-719-110-17   | DIODE RD10ESB2                |        |
| D1115            | 8-719-110-17   | DIODE RD10ESB2                |        |
| D1120            | 8-719-110-17   | DIODE RD10ESB2                |        |
| D1121            | 8-719-921-86   | DIODE MTZJ-13                 |        |
| D1122            | 8-719-921-86   | DIODE MTZJ-13                 |        |
| D1123            | 8-719-921-86   | DIODE MTZJ-13                 |        |
| D1124            | 8-719-921-86   | DIODE MTZJ-13                 |        |
| D1125            | 8-719-109-84   | DIODE RD5 1ESB1               |        |
| D1126            | 8-719-110-17   | DIODE RD10ESB2                |        |
| D1127            | 8-719-110-17   | DIODE RD10ESB2                |        |
| D1135            | 8-719-991-33   | DIODE 1SS133T-77              |        |
| <IC>             |                |                               |        |
| IC1101           | 8-752-068-46   | IC CXA1855S                   |        |
| IC1102           | 8-759-701-59   | IC NJM78M09FA                 |        |
| IC1102           | 8-759-701-59   | IC NJM78M09FA                 |        |
| <JACK>           |                |                               |        |
| J1101            | 1-750-515-11   | TERMINAL BLOCK, S 3P          |        |
| J1102            | 1-750-517-11   | JACK BLOCK, PIN 3P            |        |
| J1104            | 1-750-517-11   | JACK BLOCK, PIN 3P            |        |
| J1105            | 1-750-516-11   | JACK BLOCK, PIN 2P            |        |
| J1106            | 1-563-760-11   | JACK, MINIATUER (DIA 3 5)     |        |
| J1107            | 1-563-760-11   | JACK, MINIATUER (DIA 3 5)     |        |
| <COIL>           |                |                               |        |
| L1101            | 1-410-476-11   | INDUCTOR 33UH                 |        |
| L1104            | 1-410-473-11   | INDUCTOR 18UH                 |        |
| L1105            | 1-410-494-11   | INDUCTOR 1mH                  |        |
| <TRANSISTOR>     |                |                               |        |
| Q1102            | 8-729-216-22   | TRANSISTOR 2SA1162-G          |        |
| Q1103            | 8-729-216-22   | TRANSISTOR 2SA1162-G          |        |
| Q1104            | 8-729-422-27   | TRANSISTOR 2SD601A-Q          |        |
| Q1105            | 8-729-216-22   | TRANSISTOR 2SA1162-G          |        |
| Q1106            | 8-729-216-22   | TRANSISTOR 2SA1162-G          |        |



| REF NO     | PART NO      | DESCRIPTION                                    | REMARK   |
|------------|--------------|------------------------------------------------|----------|
| Q1107      | 8-729-422-27 | TRANSISTOR 2SD601A-Q<br>(KP-41T25/46S25/53S25) |          |
| Q1108      | 8-729-422-27 | TRANSISTOR 2SD601A-Q                           |          |
| Q1109      | 8-729-216-22 | TRANSISTOR 2SA1162-G                           |          |
| Q1110      | 8-729-216-22 | TRANSISTOR 2SA1162-G                           |          |
| Q1111      | 8-729-216-22 | TRANSISTOR 2SA1162-G                           |          |
| Q1112      | 8-729-422-27 | TRANSISTOR 2SD601A-Q                           |          |
| Q1113      | 8-729-422-27 | TRANSISTOR 2SD601A-Q                           |          |
| Q1114      | 8-729-422-27 | TRANSISTOR 2SD601A-Q                           |          |
| Q1115      | 8-729-422-27 | TRANSISTOR 2SD601A-Q                           |          |
| <RESISTOR> |              |                                                |          |
| R1101      | 1-216-065-00 | METAL GLAZE 4 7K                               | 5% 1/10W |
| R1102      | 1-216-065-00 | METAL GLAZE 4 7K                               | 5% 1/10W |
| R1103      | 1-247-804-11 | CARBON 75                                      | 5% 1/4W  |
| R1104      | 1-216-065-00 | METAL GLAZE 4 7K                               | 5% 1/10W |
| R1105      | 1-247-804-11 | CARBON 75                                      | 5% 1/4W  |
| R1106      | 1-247-804-11 | CARBON 75                                      | 5% 1/4W  |
| R1107      | 1-216-113-00 | METAL GLAZE 470K                               | 5% 1/10W |
| R1108      | 1-216-065-00 | METAL GLAZE 4 7K                               | 5% 1/10W |
| R1109      | 1-216-113-00 | METAL GLAZE 470K                               | 5% 1/10W |
| R1110      | 1-216-065-00 | METAL GLAZE 4 7K                               | 5% 1/10W |
| R1111      | 1-216-065-00 | METAL GLAZE 4 7K                               | 5% 1/10W |
| R1112      | 1-216-065-00 | METAL GLAZE 4 7K                               | 5% 1/10W |
| R1113      | 1-247-804-11 | CARBON 75                                      | 5% 1/4W  |
| R1114      | 1-216-113-00 | METAL GLAZE 470K                               | 5% 1/10W |
| R1115      | 1-216-113-00 | METAL GLAZE 470K                               | 5% 1/10W |
| R1116      | 1-216-095-00 | METAL GLAZE 82K                                | 5% 1/10W |
| R1117      | 1-216-095-00 | METAL GLAZE 82K                                | 5% 1/10W |
| R1118      | 1-216-095-00 | METAL GLAZE 82K                                | 5% 1/10W |
| R1119      | 1-216-025-91 | METAL GLAZE 100                                | 5% 1/10W |
| R1120      | 1-216-025-91 | METAL GLAZE 100                                | 5% 1/10W |
| R1127      | 1-216-041-00 | METAL GLAZE 470                                | 5% 1/10W |
| R1129      | 1-216-041-00 | METAL GLAZE 470                                | 5% 1/10W |
| R1130      | 1-216-067-00 | METAL GLAZE 5 6K                               | 5% 1/10W |
| R1132      | 1-216-025-91 | METAL GLAZE 100                                | 5% 1/10W |
| R1133      | 1-216-067-00 | METAL GLAZE 5 6K                               | 5% 1/10W |
| R1134      | 1-216-065-00 | METAL GLAZE 4 7K                               | 5% 1/10W |
| R1135      | 1-216-065-00 | METAL GLAZE 4 7K                               | 5% 1/10W |
| R1137      | 1-216-025-91 | METAL GLAZE 100<br>(KP-41T25/46S25/53S25)      | 5% 1/10W |
| R1138      | 1-216-065-00 | METAL GLAZE 4 7K<br>(KP-41T25/46S25/53S25)     | 5% 1/10W |
| R1140      | 1-216-025-91 | METAL GLAZE 100<br>(KP-41T25/46S25/53S25)      | 5% 1/10W |
| R1141      | 1-216-041-00 | METAL GLAZE 470                                | 5% 1/10W |
| R1142      | 1-216-025-91 | METAL GLAZE 100                                | 5% 1/10W |
| R1145      | 1-216-051-00 | METAL GLAZE 1 2K                               | 5% 1/10W |
| R1146      | 1-216-051-00 | METAL GLAZE 1 2K                               | 5% 1/10W |
| R1149      | 1-216-041-00 | METAL GLAZE 470                                | 5% 1/10W |
| R1150      | 1-216-025-91 | METAL GLAZE 100                                | 5% 1/10W |
| R1151      | 1-216-025-91 | METAL GLAZE 100                                | 5% 1/10W |
| R1152      | 1-216-043-91 | METAL GLAZE 560                                | 5% 1/10W |
| R1153      | 1-216-049-91 | METAL GLAZE 1K                                 | 5% 1/10W |
| R1154      | 1-216-041-00 | METAL GLAZE 470                                | 5% 1/10W |
| R1155      | 1-216-049-91 | METAL GLAZE 1K                                 | 5% 1/10W |
| R1156      | 1-216-043-91 | METAL GLAZE 560                                | 5% 1/10W |
| R1157      | 1-216-045-00 | METAL GLAZE 680                                | 5% 1/10W |
| R1158      | 1-216-043-91 | METAL GLAZE 560<br>(KP-41T25/46S25/53S25)      | 5% 1/10W |
| R1159      | 1-216-045-00 | METAL GLAZE 680<br>(KP-41T25/46S25/53S25)      | 5% 1/10W |
| R1160      | 1-216-049-91 | METAL GLAZE 1K                                 | 5% 1/10W |
| R1161      | 1-216-041-00 | METAL GLAZE 470                                | 5% 1/10W |
| R1162      | 1-216-041-00 | METAL GLAZE 470                                | 5% 1/10W |
| R1165      | 1-249-403-11 | CARBON 68                                      | 5% 1/4W  |
| R1166      | 1-216-113-00 | METAL GLAZE 470K                               | 5% 1/10W |
| R1167      | 1-216-113-00 | METAL GLAZE 470K                               | 5% 1/10W |
| R1168      | 1-216-113-00 | METAL GLAZE 470K                               | 5% 1/10W |

| REF NO                                                                     | PART NO      | DESCRIPTION                               | REMARK               |
|----------------------------------------------------------------------------|--------------|-------------------------------------------|----------------------|
| R1169                                                                      | 1-216-025-91 | METAL GLAZE 100                           | 5% 1/10W             |
| R1170                                                                      | 1-216-041-00 | METAL GLAZE 470                           | 5% 1/10W             |
| R1171                                                                      | 1-216-041-00 | METAL GLAZE 470                           | 5% 1/10W             |
| R1172                                                                      | 1-216-025-91 | METAL GLAZE 100                           | 5% 1/10W             |
| R1173                                                                      | 1-216-025-91 | METAL GLAZE 100                           | 5% 1/10W             |
| R1174                                                                      | 1-216-041-00 | METAL GLAZE 470                           | 5% 1/10W             |
| R1175                                                                      | 1-216-025-91 | METAL GLAZE 100                           | 5% 1/10W             |
| R1176                                                                      | 1-216-025-91 | METAL GLAZE 100                           | 5% 1/10W             |
| R1178                                                                      | 1-216-041-00 | METAL GLAZE 470                           | 5% 1/10W             |
| R1179                                                                      | 1-216-025-91 | METAL GLAZE 100                           | 5% 1/10W             |
| R1180                                                                      | 1-216-025-91 | METAL GLAZE 100                           | 5% 1/10W             |
| R1181                                                                      | 1-216-097-91 | METAL GLAZE 100K                          | 5% 1/10W             |
| R1182                                                                      | 1-216-113-00 | METAL GLAZE 470K                          | 5% 1/10W             |
| R1183                                                                      | 1-216-049-91 | METAL GLAZE 1K                            | 5% 1/10W             |
| R1184                                                                      | 1-216-113-00 | METAL GLAZE 470K                          | 5% 1/10W             |
| R1185                                                                      | 1-216-049-91 | METAL GLAZE 1K                            | 5% 1/10W             |
| R1186                                                                      | 1-216-061-00 | METAL GLAZE 3 3K                          | 5% 1/10W             |
| R1187                                                                      | 1-216-061-00 | METAL GLAZE 3 3K                          | 5% 1/10W             |
| R1188                                                                      | 1-216-097-91 | METAL GLAZE 100K                          | 5% 1/10W             |
| R1190                                                                      | 1-216-295-91 | CONDUCTOR, CHIP                           |                      |
| R1191                                                                      | 1-216-295-91 | CONDUCTOR, CHIP                           |                      |
| R1192                                                                      | 1-216-295-91 | CONDUCTOR, CHIP                           |                      |
| R1193                                                                      | 1-216-025-91 | METAL GLAZE 100                           | 5% 1/10W             |
| R1194                                                                      | 1-216-025-91 | METAL GLAZE 100                           | 5% 1/10W             |
| R1195                                                                      | 1-216-025-91 | METAL GLAZE 100<br>(KP-41T25/46S25/53S25) | 5% 1/10W             |
| R1196                                                                      | 1-216-041-00 | METAL GLAZE 470                           | 5% 1/10W             |
| R1197                                                                      | 1-216-041-00 | METAL GLAZE 470                           | 5% 1/10W             |
| *****                                                                      |              |                                           |                      |
| * A-1390-487-A ZR BOARD, COMPLETE (KP-41T25)<br>*****                      |              |                                           |                      |
| * A-1390-513-A ZR BOARD, COMPLETE<br>*****<br>(KP-46S17/46S25/53S17/53S25) |              |                                           |                      |
| 4-382-854-11 SCREW (M3X10), P, SW (+)                                      |              |                                           |                      |
| <CAPACITOR>                                                                |              |                                           |                      |
| C1403                                                                      | 1-102-978-00 | CERAMIC 220PF                             | 5% 50V (KP-41T25)    |
| C1404                                                                      | 1-107-638-11 | ELECT 33MF                                | 20% 160V (KP-41T25)  |
| C1405                                                                      | 1-104-665-11 | ELECT 100MF                               | 20% 25V (KP-41T25)   |
| C1406                                                                      | 1-107-370-11 | FILM 0 1MF                                | 10% 200V (KP-41T25)  |
| C1407                                                                      | 1-104-665-11 | ELECT 100MF                               | 20% 25V (KP-41T25)   |
| C1408                                                                      | 1-107-362-11 | FILM 0 0047MF                             | 10% 200V (KP-41T25)  |
| C1409                                                                      | 1-107-667-11 | ELECT 2 2MF                               | 20% 160V (KP-41T25)  |
| C1410                                                                      | 1-107-362-11 | FILM 0 0047MF                             | 10% 200V (KP-41T25)  |
| C1411                                                                      | 1-137-364-11 | FILM 0 001MF                              | 5% 50V (KP-41T25)    |
| C1412                                                                      | 1-137-364-11 | FILM 0 001MF                              | 5% 50V (KP-41T25)    |
| C1413                                                                      | 1-161-830-00 | CERAMIC 0 0047MF                          | 500V (KP-41T25)      |
| C1414                                                                      | 1-104-661-91 | ELECT 330MF                               | 20% 16V (KP-41T25)   |
| C1415                                                                      | 1-102-947-00 | CERAMIC 10PF                              | 0 5PF 50V (KP-41T25) |
| C1416                                                                      | 1-102-973-00 | CERAMIC 100PF                             | 5% 50V (KP-41T25)    |

The components identified by shading and mark  $\Delta$  are critical for safety. Replace only with part number specified.

Les composants identifiés par une trame et une marque  $\Delta$  sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

**ZR**

**ZG**

**ZB**

| REF NO                                       | PART NO.       | DESCRIPTION                                        | REMARK |
|----------------------------------------------|----------------|----------------------------------------------------|--------|
| <CONNECTOR>                                  |                |                                                    |        |
| CN1411                                       | * 1-580-689-11 | PIN, CONNECTOR (PC BOARD) 4P                       |        |
| CN1412                                       | * 1-564-507-11 | PLUG, CONNECTOR 4P                                 |        |
| CN1413                                       | * 1-564-506-11 | PLUG, CONNECTOR 3P                                 |        |
| CN1414                                       | * 1-564-509-11 | PLUG, CONNECTOR 6P (KP-41T25)                      |        |
| CN1415                                       | * 1-564-506-11 | PLUG, CONNECTOR 3P<br>(KP-46S17/46S25/53S17/53S25) |        |
| CN1415                                       | * 1-564-510-11 | PLUG, CONNECTOR 7P (KP-41T25)                      |        |
| CN1416                                       | 1-695-915-11   | TAB (CONTACT) (KP-41T25)                           |        |
| <DIODE>                                      |                |                                                    |        |
| D1401                                        | 8-719-921-86   | DIODE MTZJ-13 (KP-41T25)                           |        |
| D1402                                        | 8-719-921-86   | DIODE MTZJ-13 (KP-41T25)                           |        |
| <TRANSISTOR>                                 |                |                                                    |        |
| Q1401                                        | 8-729-017-06   | TRANSISTOR 2SC4793 (KP-41T25)                      |        |
| Q1402                                        | 8-729-017-05   | TRANSISTOR 2SA1837 (KP-41T25)                      |        |
| Q1403                                        | 8-729-140-96   | TRANSISTOR 2SD774-34 (KP-41T25)                    |        |
| <RESISTOR>                                   |                |                                                    |        |
| R1401                                        | 1-249-414-11   | CARBON 560 5% 1/4W                                 |        |
| R1402                                        | 1-249-414-11   | CARBON 560 5% 1/4W                                 |        |
| R1405                                        | 1-249-417-11   | CARBON 1K 5% 1/4W<br>(KP-41T25)                    |        |
| R1406                                        | 1-216-479-11   | METAL OXIDE 560 5% 3W F<br>(KP-41T25)              |        |
| R1407                                        | 1-249-400-11   | CARBON 39 5% 1/4W F<br>(KP-41T25)                  |        |
| R1408                                        | 1-249-384-11   | CARBON 18 5% 1/4W F<br>(KP-41T25)                  |        |
| R1409                                        | 1-249-384-11   | CARBON 18 5% 1/4W F<br>(KP-41T25)                  |        |
| R1410                                        | 1-247-734-11   | CARBON 39 5% 1/2W F<br>(KP-41T25)                  |        |
| R1411                                        | 1-249-417-11   | CARBON 1K 5% 1/4W F<br>(KP-41T25)                  |        |
| R1412                                        | 1-249-414-11   | CARBON 560 5% 1/4W<br>(KP-41T25)                   |        |
| R1413                                        | 1-249-432-11   | CARBON 18K 5% 1/4W<br>(KP-41T25)                   |        |
| R1414                                        | 1-249-432-11   | CARBON 18K 5% 1/4W<br>(KP-41T25)                   |        |
| R1415                                        | 1-249-414-11   | CARBON 560 5% 1/4W F<br>(KP-41T25)                 |        |
| R1416                                        | 1-216-451-11   | METAL OXIDE 120 5% 2W F<br>(KP-41T25)              |        |
| R1417                                        | 1-216-475-11   | METAL OXIDE 120 5% 3W F                            |        |
| R1418                                        | 1-249-377-11   | CARBON 0.47 5% 1/4W F<br>(KP-41T25)                |        |
| R1419                                        | 1-247-815-91   | CARBON 220 5% 1/4W<br>(KP-41T25)                   |        |
| R1420                                        | 1-216-475-11   | METAL OXIDE 120 5% 3W F                            |        |
| R1421                                        | 1-249-417-11   | CARBON 1K 5% 1/4W<br>(KP-41T25)                    |        |
| *****                                        |                |                                                    |        |
| * A-1390-489-A ZG BOARD, COMPLETE (KP-41T25) |                |                                                    |        |
| *****                                        |                |                                                    |        |
| * A-1390-512-A ZG BOARD, COMPLETE            |                |                                                    |        |
| *****                                        |                |                                                    |        |
| (KP-46S17/46S25/53S17/53S25)                 |                |                                                    |        |
| <CAPACITOR>                                  |                |                                                    |        |
| C1433                                        | 1-102-973-00   | CERAMIC 100PF 5% 50V<br>(KP-41T25)                 |        |

| REF NO                                                                  | PART NO        | DESCRIPTION                                        | REMARK |
|-------------------------------------------------------------------------|----------------|----------------------------------------------------|--------|
| <CONNECTOR>                                                             |                |                                                    |        |
| CN1441                                                                  | * 1-580-689-11 | PIN, CONNECTOR (PC BOARD) 4P                       |        |
| CN1442                                                                  | * 1-564-507-11 | PLUG, CONNECTOR 4P                                 |        |
| CN1443                                                                  | * 1-564-506-11 | PLUG, CONNECTOR 3P                                 |        |
| CN1445                                                                  | * 1-564-506-11 | PLUG, CONNECTOR 3P<br>(KP-46S17/46S25/53S17/53S25) |        |
| CN1445                                                                  | * 1-564-510-11 | PLUG, CONNECTOR 7P (KP-41T25)                      |        |
| <RESISTOR>                                                              |                |                                                    |        |
| R1431                                                                   | 1-249-414-11   | CARBON 560 5% 1/4W                                 |        |
| R1432                                                                   | 1-249-414-11   | CARBON 560 5% 1/4W                                 |        |
| R1435                                                                   | 1-216-475-11   | METAL OXIDE 120 5% 3W F                            |        |
| R1436                                                                   | 1-216-475-11   | METAL OXIDE 120 5% 3W F                            |        |
| R1437                                                                   | 1-249-417-11   | CARBON 1K 5% 1/4W<br>(KP-41T25)                    |        |
| *****                                                                   |                |                                                    |        |
| * A-1390-491-A ZB BOARD, COMPLETE                                       |                |                                                    |        |
| *****                                                                   |                |                                                    |        |
| <CONNECTOR>                                                             |                |                                                    |        |
| CN1471                                                                  | * 1-580-689-11 | PIN, CONNECTOR (PC BOARD) 4P                       |        |
| CN1472                                                                  | * 1-564-507-11 | PLUG, CONNECTOR 4P                                 |        |
| CN1473                                                                  | * 1-564-506-11 | PLUG, CONNECTOR 3P                                 |        |
| <RESISTOR>                                                              |                |                                                    |        |
| R1461                                                                   | 1-249-414-11   | CARBON 560 5% 1/4W                                 |        |
| R1462                                                                   | 1-249-414-11   | CARBON 560 5% 1/4W                                 |        |
| R1465                                                                   | 1-216-475-11   | METAL OXIDE 120 5% 3W F                            |        |
| R1466                                                                   | 1-216-475-11   | METAL OXIDE 120 5% 3W F                            |        |
| *****                                                                   |                |                                                    |        |
| MISCELLANEOUS                                                           |                |                                                    |        |
| *****                                                                   |                |                                                    |        |
| $\Delta$ 1-223-925-21 RESISTOR ASSY (HIGH-VOLTAGE)                      |                |                                                    |        |
| 1-417-178-11 SELECTOR, ANTENNA (AS-2)<br>(KP-46S17/46S25/53S17/53S25)   |                |                                                    |        |
| 1-504-785-11 SPEAKER (10CM)                                             |                |                                                    |        |
| 1-556-945-21 CABLE, P-P                                                 |                |                                                    |        |
| 1-557-056-41 CABLE, P-P                                                 |                |                                                    |        |
| 1-561-306-00 JACK, PIN (F) (KP-46S17/53S17)                             |                |                                                    |        |
| $\Delta$ 1-769-837-11 CORD, POWER (WITH NOISE FILTER)<br>(7.0A/125V)    |                |                                                    |        |
| $\Delta$ 1-900-211-34 LEAD ASSY, HV                                     |                |                                                    |        |
| $\Delta$ 8-451-463-11 DEFLECTION YOKE (Y829PA2N)                        |                |                                                    |        |
| $\Delta$ 8-451-463-21 DEFLECTION YOKE (Y829PA2N2)                       |                |                                                    |        |
| $\Delta$ 8-598-955-00 BLOCK ASSY, HIGH-VOLTAGE                          |                |                                                    |        |
| $\Delta$ 8-736-075-05 PICTURE TUBE 07MAC2(G)                            |                |                                                    |        |
| $\Delta$ 8-736-076-15 PICTURE TUBE 07MAC2 (B)<br>(KP-41T25/46S17/46S25) |                |                                                    |        |
| $\Delta$ 8-736-076-25 PICTURE TUBE 07MAC3(B)<br>(KP-53S17/53S25)        |                |                                                    |        |
| $\Delta$ 8-736-077-15 PICTURE TUBE 07MAC2 (R)<br>(KP-41T25/46S17/46S25) |                |                                                    |        |
| $\Delta$ 8-736-077-25 PICTURE TUBE 07MAC3(R)<br>(KP-53S17/53S25)        |                |                                                    |        |
| *****                                                                   |                |                                                    |        |

| REF. NO | PART NO.                                   | DESCRIPTION                                   | REMARK |
|---------|--------------------------------------------|-----------------------------------------------|--------|
|         | ACCESSORIES AND PACKING MATERIALS<br>***** |                                               |        |
|         | 3-701-627-00                               | BAG, POLYETHYLENE                             |        |
|         | 3-856-232-11                               | MANUAL, INSTRUCTION (KP-46S25/53S25)          |        |
|         | 3-856-233-11                               | MANUAL, INSTRUCTION<br>(KP-41T25/46S17/53S17) |        |
|         | 3-856-233-21                               | MANUAL, INSTRUCTION (Canadian model)          |        |
|         | * 4-037-674-01                             | BOARD, TOP (KP-46S17/46S25)                   |        |
|         | * 4-041-423-01                             | SHEET, PROTECTION<br>(KP-41T25/46S17/46S25)   |        |
|         | * 4-041-425-01                             | BAG, PROTECTION (KP-46S17/46S25)              |        |
|         | * 4-041-426-01                             | BAG, PROTECTION (KP-53S17/53S25)              |        |
|         | * 4-042-463-01                             | SHEET, PROTECTION (KP-53S17/53S25)            |        |
|         | * 4-047-774-01                             | PLATE, TOP (KP-53S17/53S25)                   |        |
|         | * 4-047-775-01                             | PLATE, BOTTOM (KP-53S17/53S25)                |        |
|         | * 4-047-776-01                             | TRAY (KP-53S17/53S25)                         |        |
|         | * 4-047-777-01                             | INDIVIDUAL CARTON (KP-53S17/53S25)            |        |
|         | * 4-047-778-01                             | CUSHION (UPPER) (ASSY) (KP-53S17/53S25)       |        |
|         | * 4-047-779-01                             | CUSHION (LOWER) (ASSY)<br>(KP-53S17/53S25)    |        |
|         | * 4-048-101-01                             | INDIVIDUAL CARTON (KP-46S17/46S25)            |        |
|         | * 4-048-102-01                             | TRAY (KP-46S17/46S25)                         |        |
|         | * 4-048-103-01                             | BOARD, BOTTOM (KP-46S17/46S25)                |        |
|         | * 4-048-104-01                             | CUSHION (UPPER) (ASSY) (KP-46S17/46S25)       |        |

| REF NO | PART NO                   | DESCRIPTION                                           | REMARK |
|--------|---------------------------|-------------------------------------------------------|--------|
|        | * 4-048-105-01            | CUSHION (LOWER) (ASSY)<br>(KP-46S17/46S25)            |        |
|        | * 4-048-579-01            | CUSHION (UPPER) (ASSY) (KP-41T25)                     |        |
|        | * 4-048-580-01            | CUSHION (LOWER) (ASSY) (KP-41T25)                     |        |
|        | * 4-048-581-01            | TRAY (KP-41T25)                                       |        |
|        | * 4-048-582-01            | INDIVIDUAL CARTON (KP-41T25)                          |        |
|        | * 4-049-155-01            | BAG, PROTECTION (KP-41T25)                            |        |
|        | 4-050-330-01              | LID, SPEAKER GRILLE<br>(KP-46S17/46S25/53S17/53S25)   |        |
|        | * 4-051-491-01            | BLOCK, FOAM (KP-53S17/53S25)                          |        |
|        | REMOTE COMMANDER<br>***** |                                                       |        |
|        | 1-467-059-21              | REMOTE COMMANDER (RM-Y118)<br>(KP-46S25/53S25)        |        |
|        | 9-903-826-01              | POCKET, COVER (FOR RM-Y118)<br>(KP-46S25/53S25)       |        |
|        | 1-467-621-11              | REMOTE COMMANDER (RM-Y121)<br>(KP-41T25/46S17/53S17)  |        |
|        | 9-903-826-01              | POCKET, COVER (FOR RM-Y121)<br>(KP-41T25/46S17/53S17) |        |